

FIG. 1A

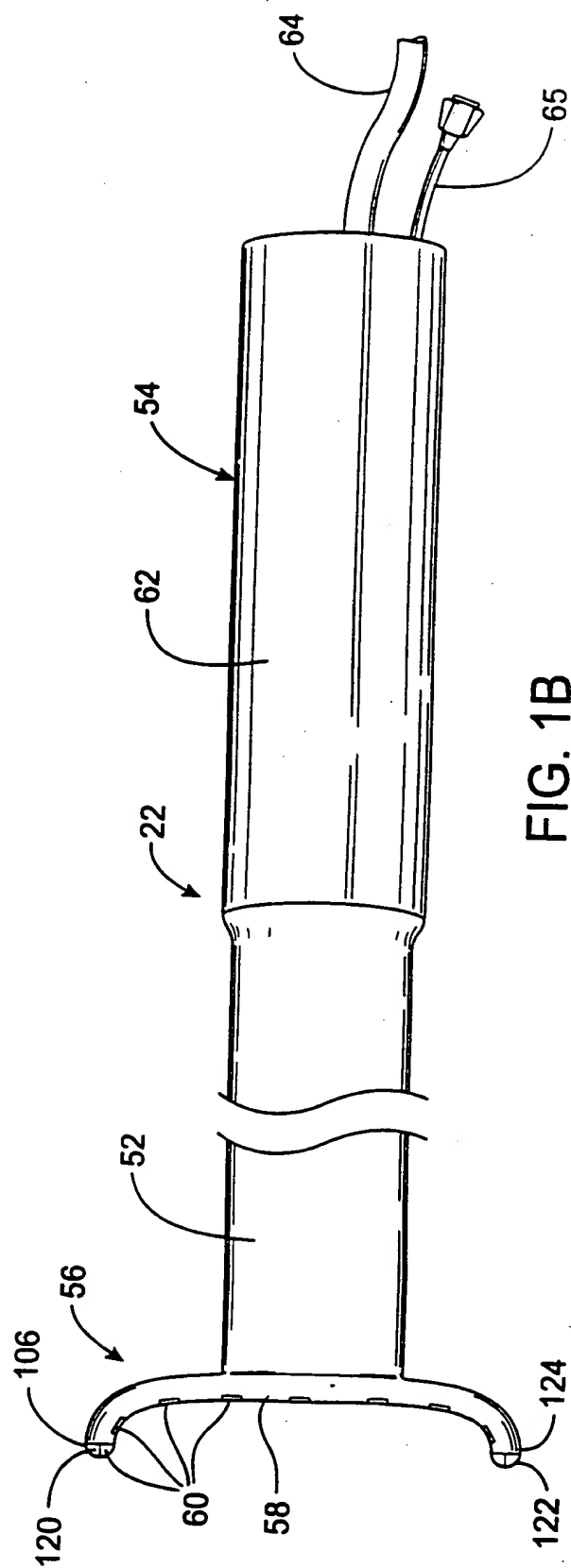


FIG. 1B

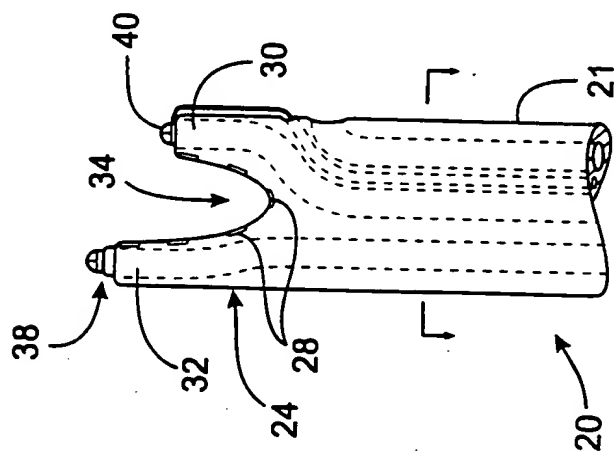


FIG. 2A

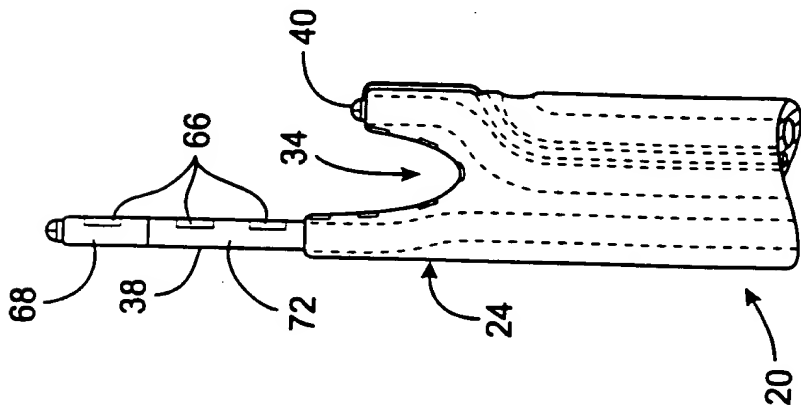


FIG. 2B

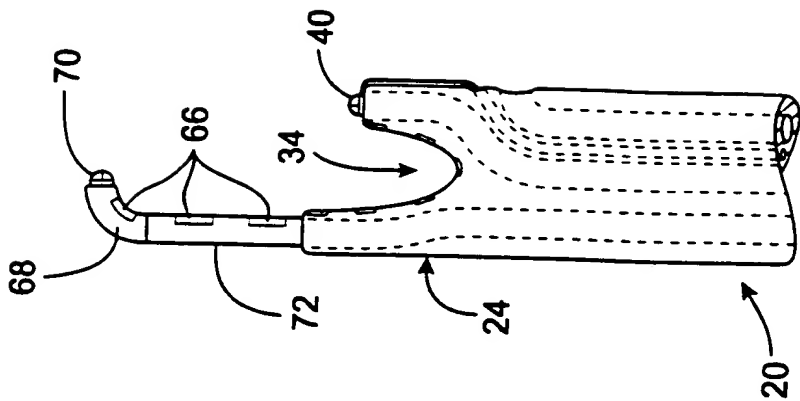


FIG. 2C

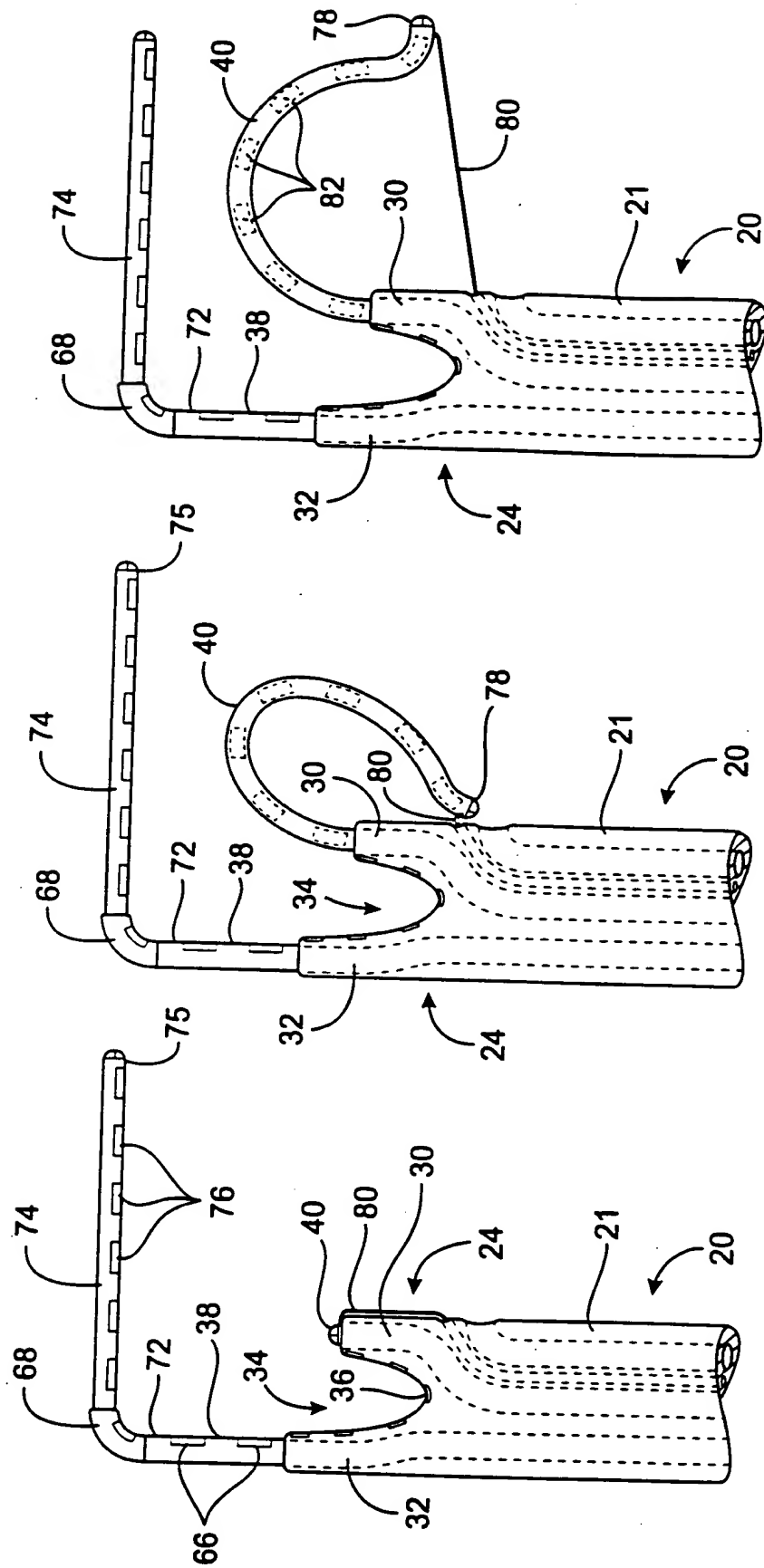


FIG. 2D

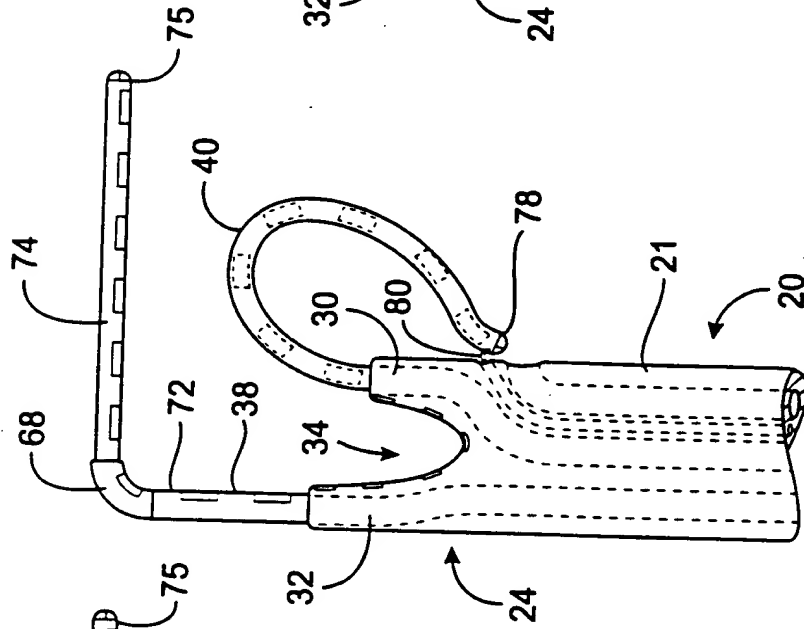


FIG. 2E

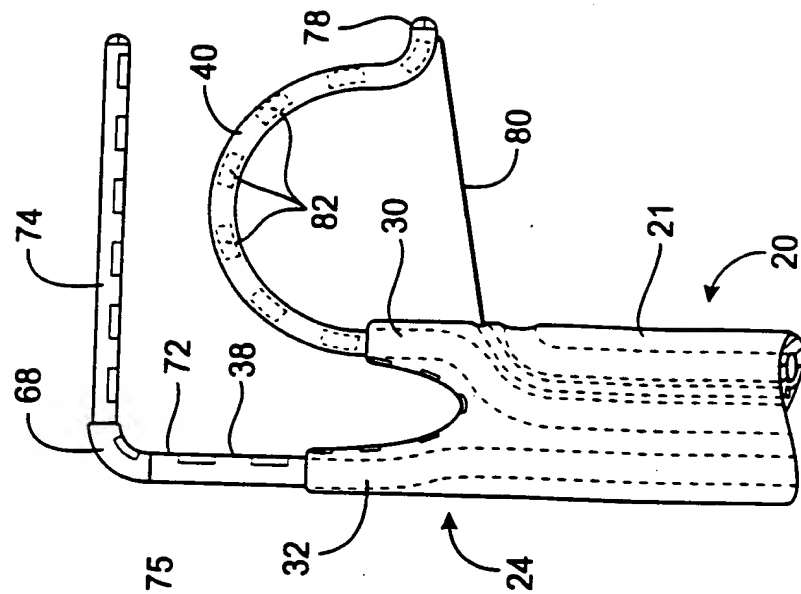


FIG. 2F

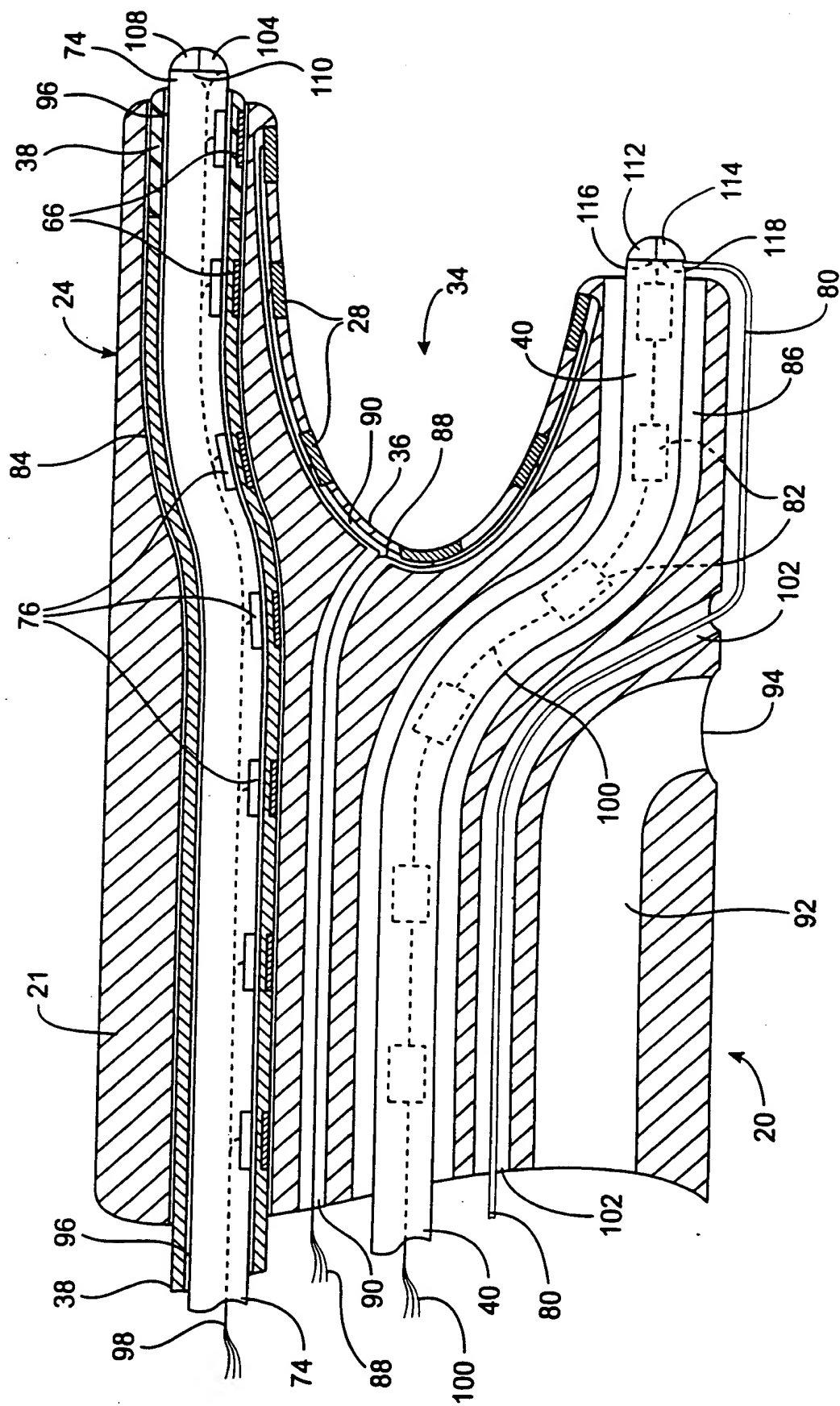


FIG. 3

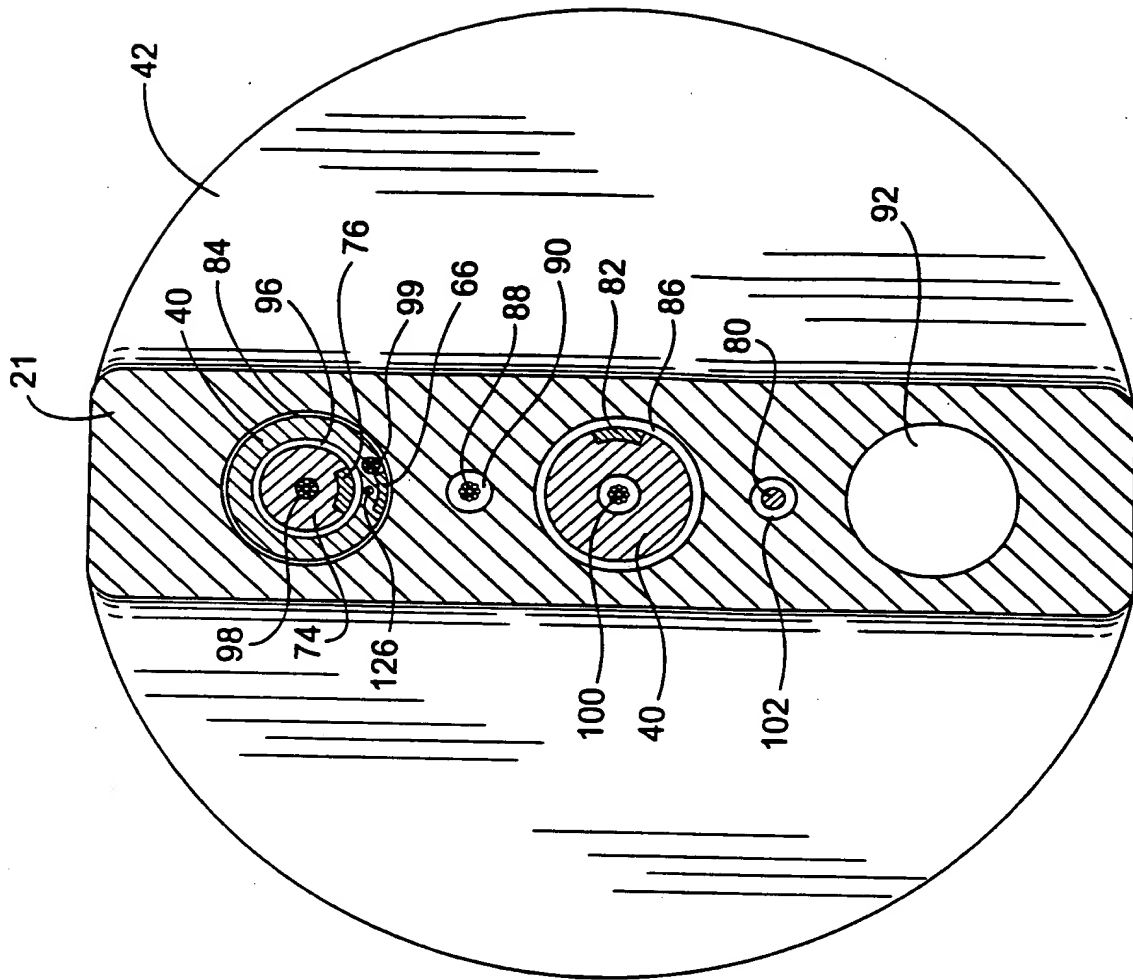
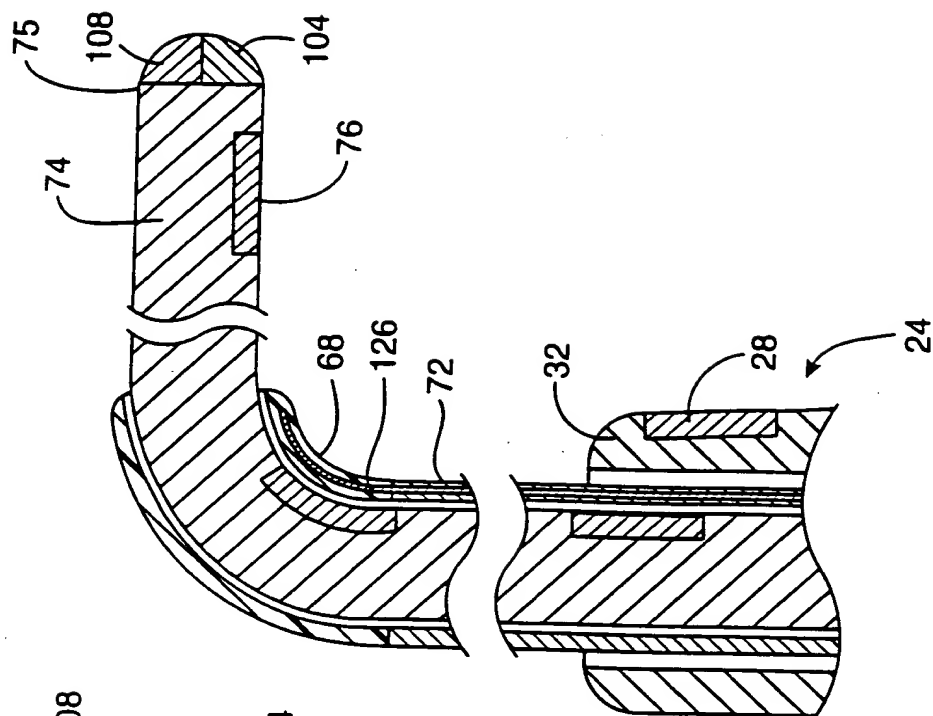
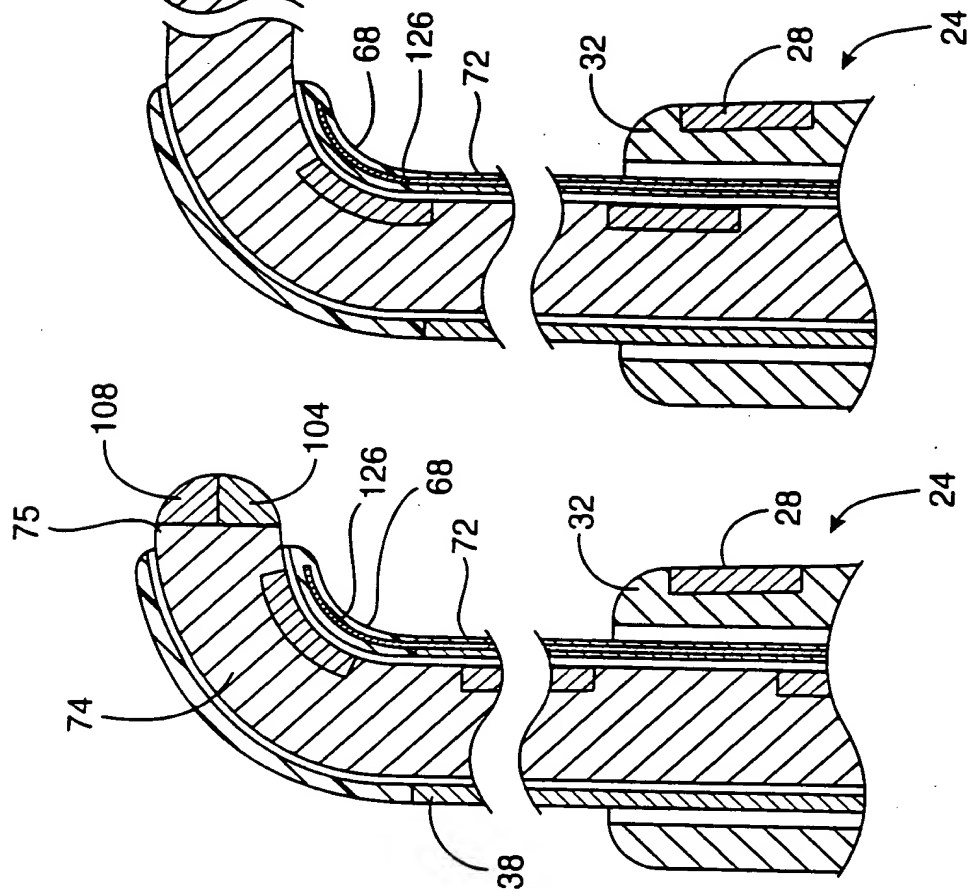
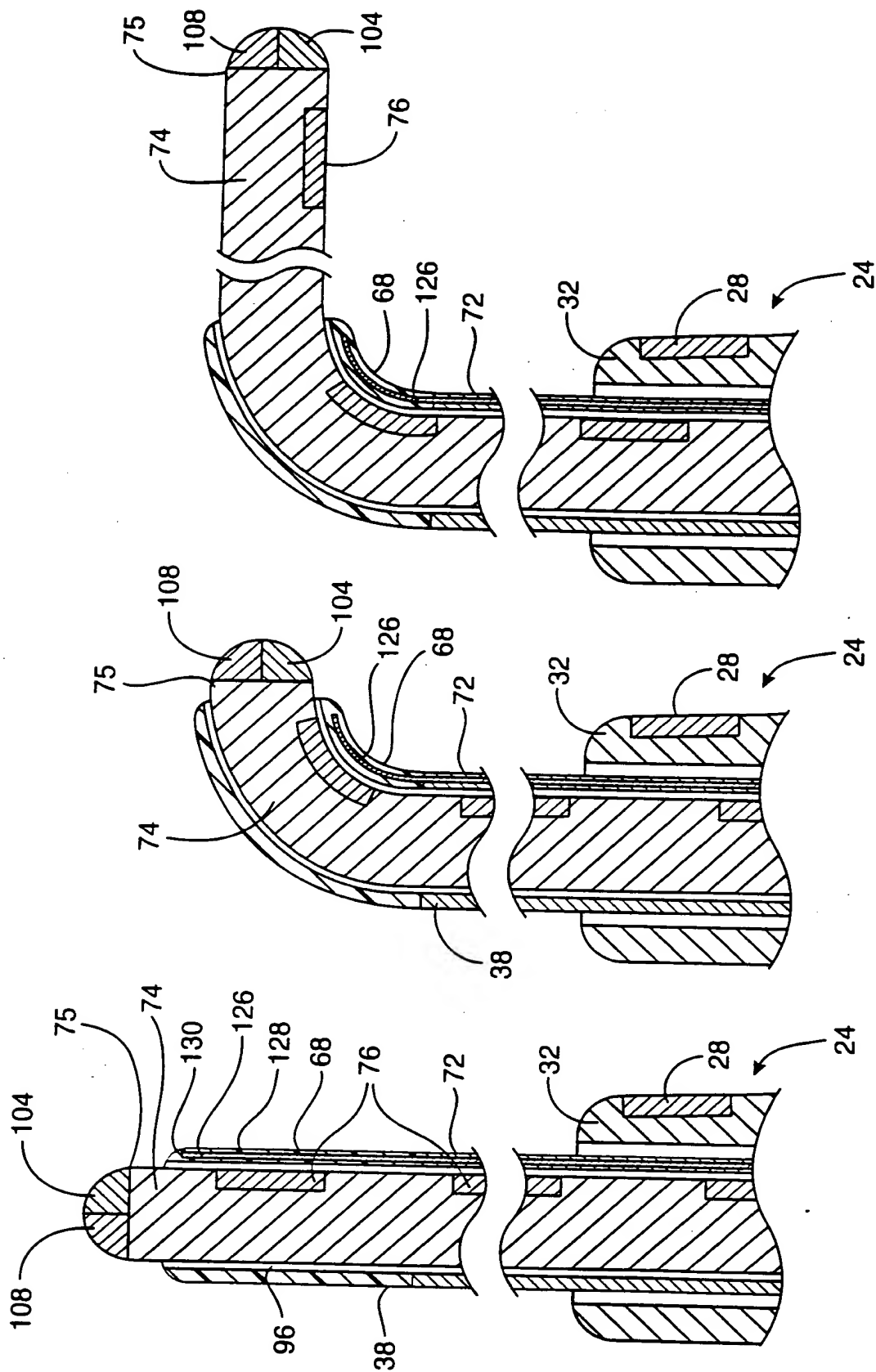


FIG. 4



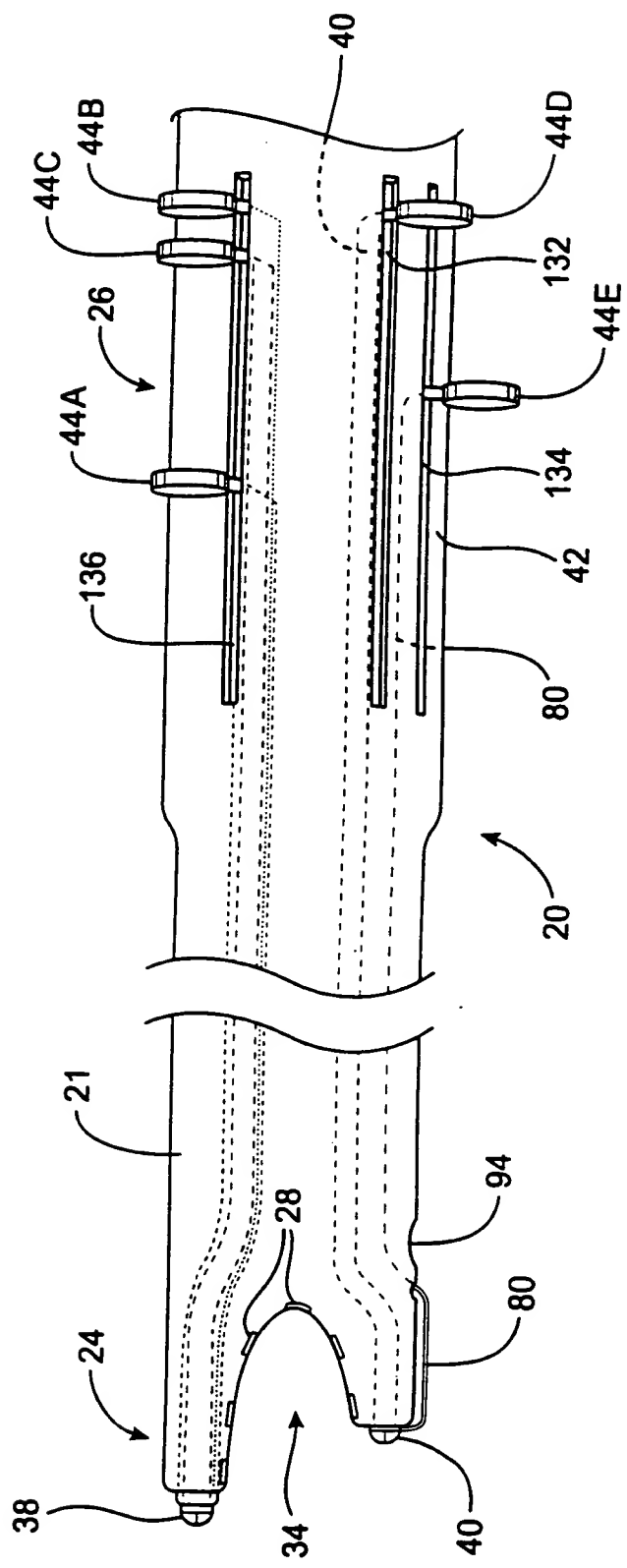


FIG. 6

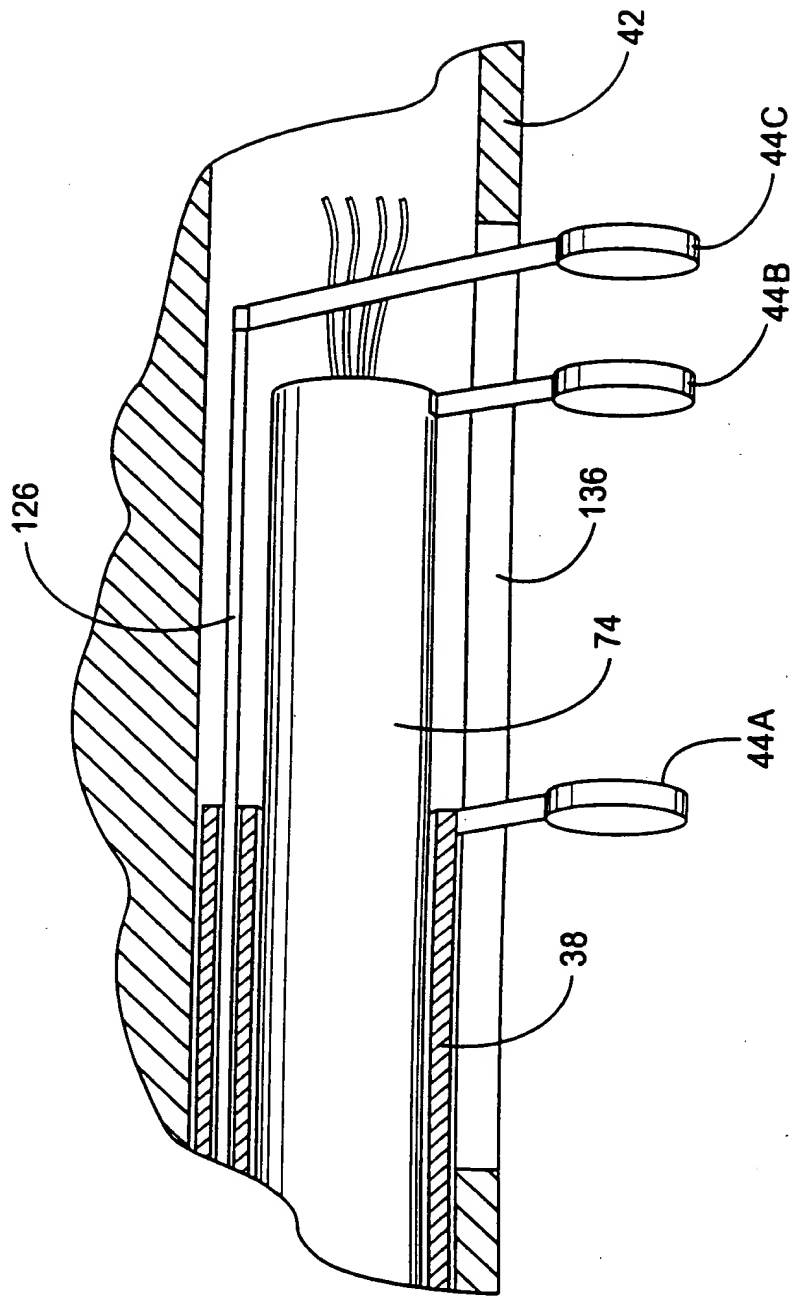


FIG. 7



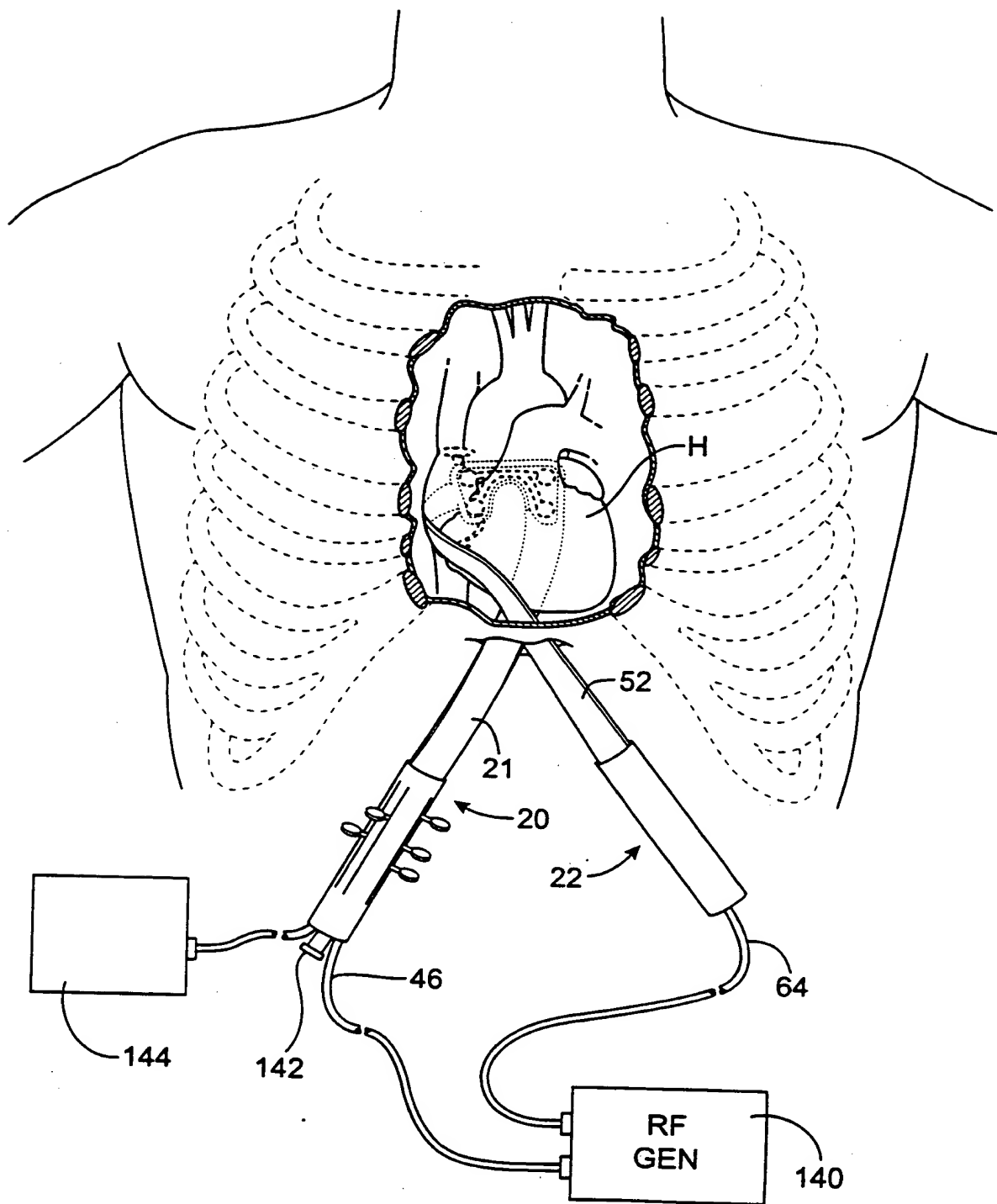


FIG. 8

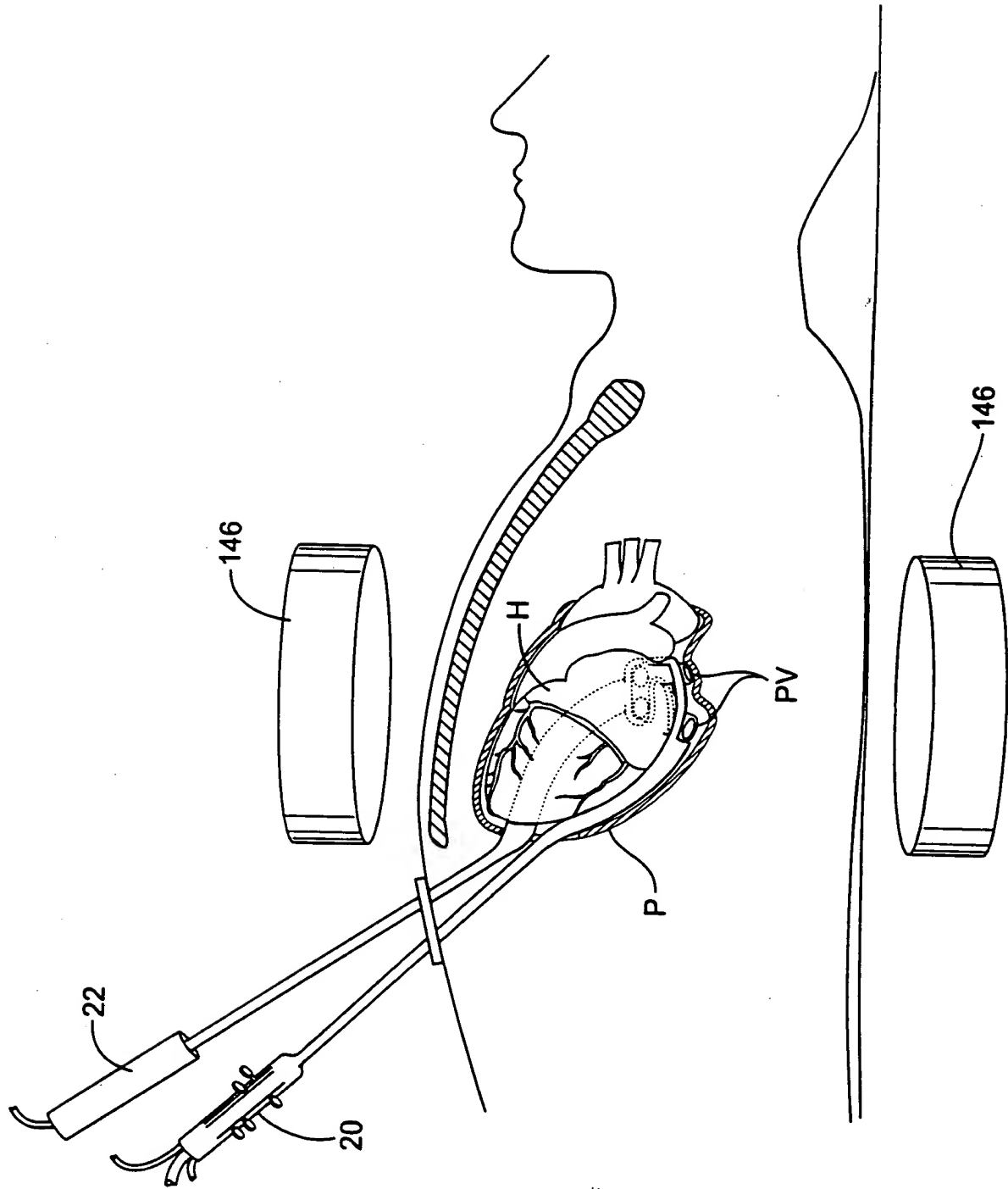


FIG. 9

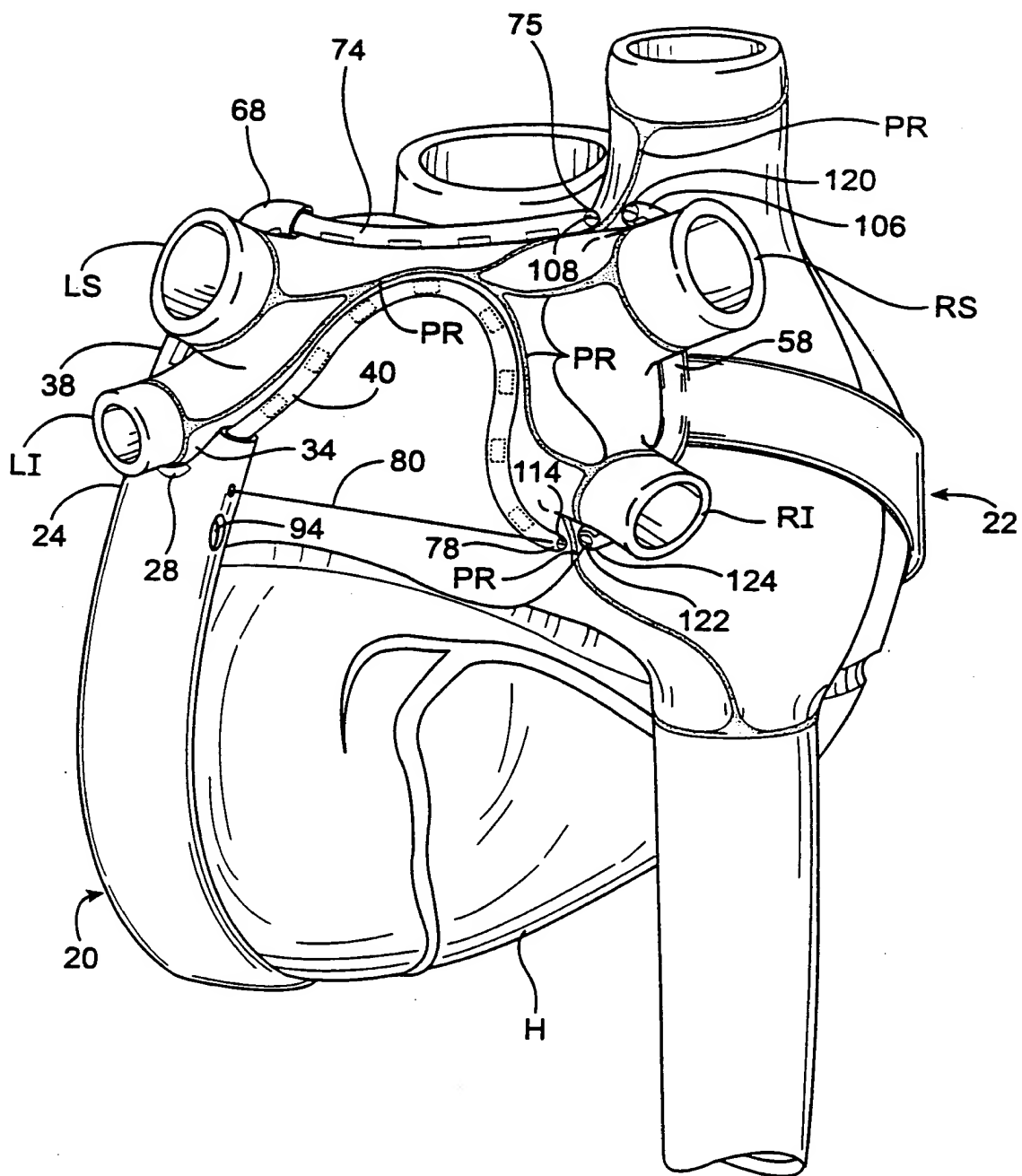


FIG. 10

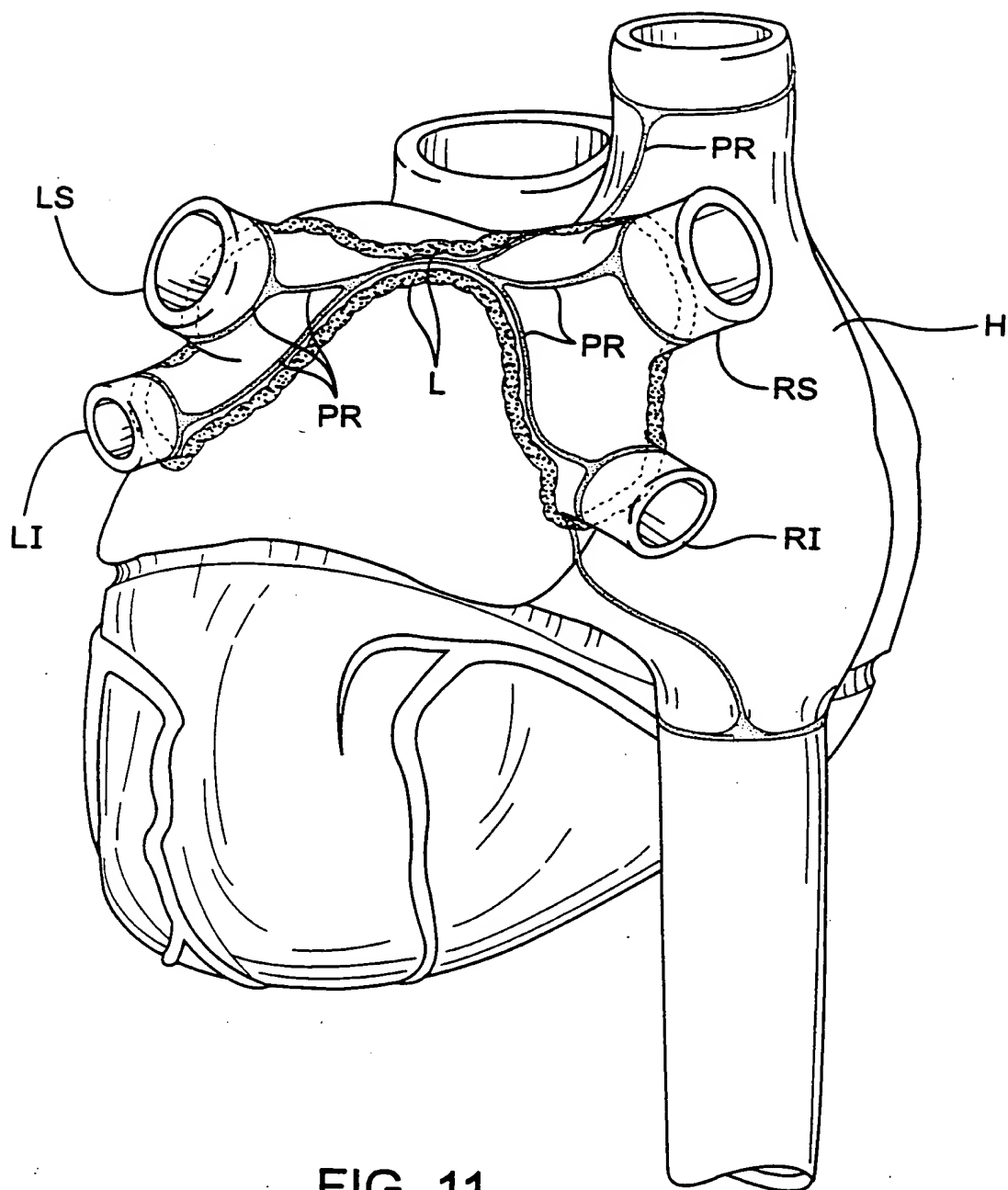


FIG. 11

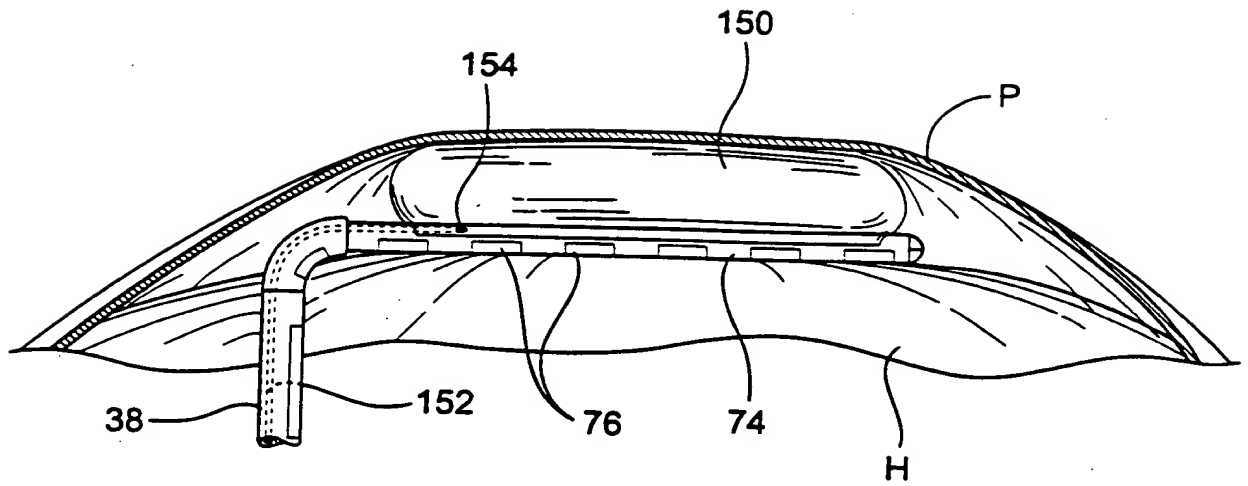


FIG. 12

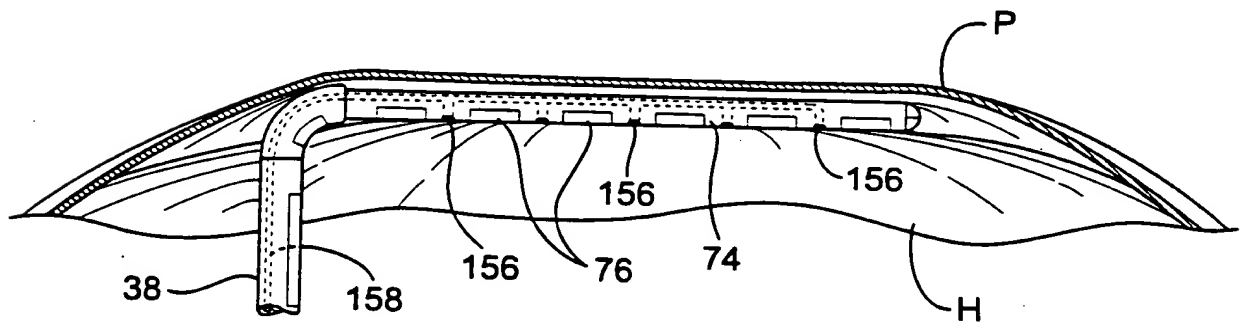
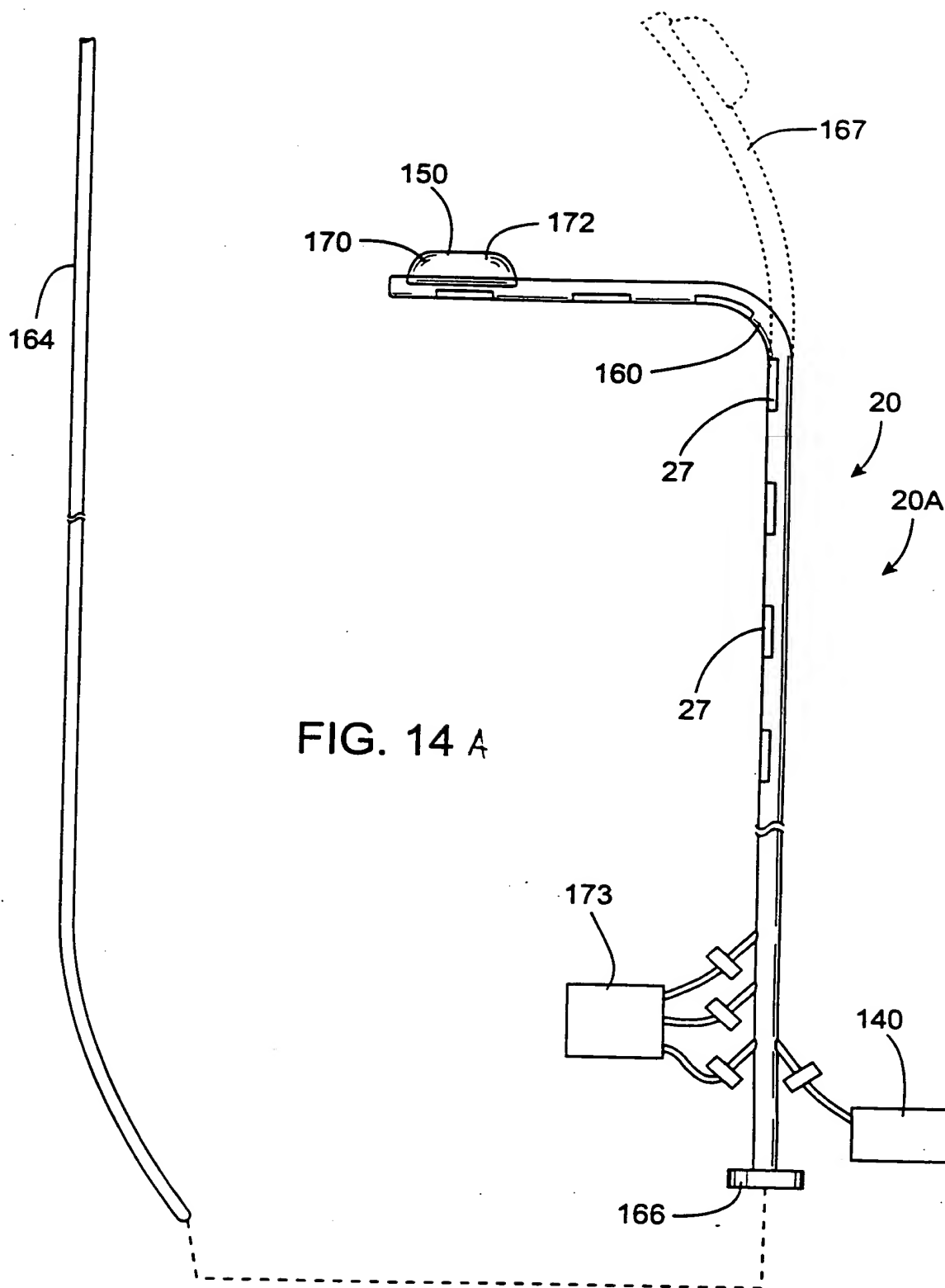


FIG. 13

FIG. 14A



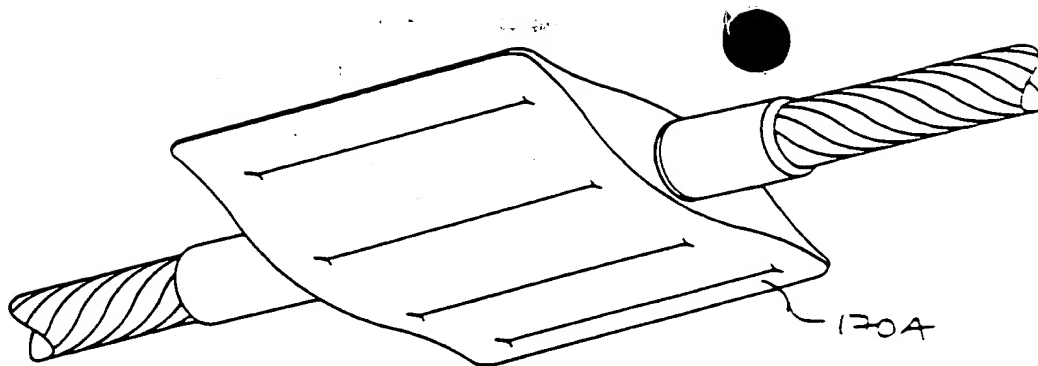


FIG. 14B

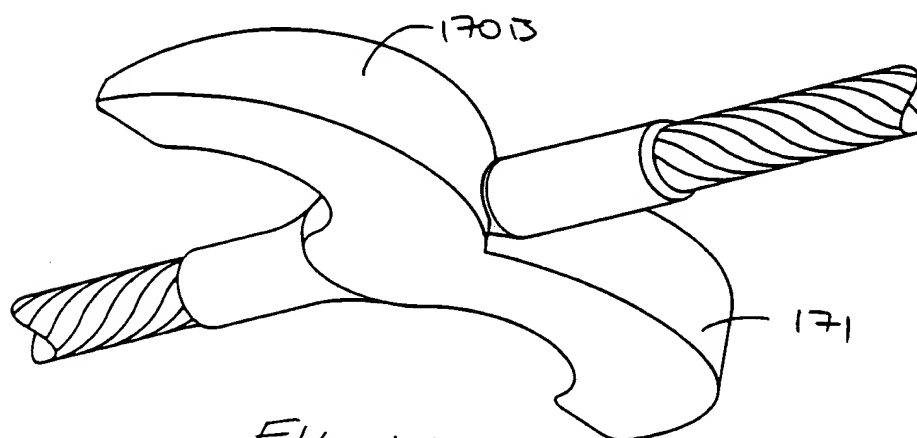


FIG. 14C

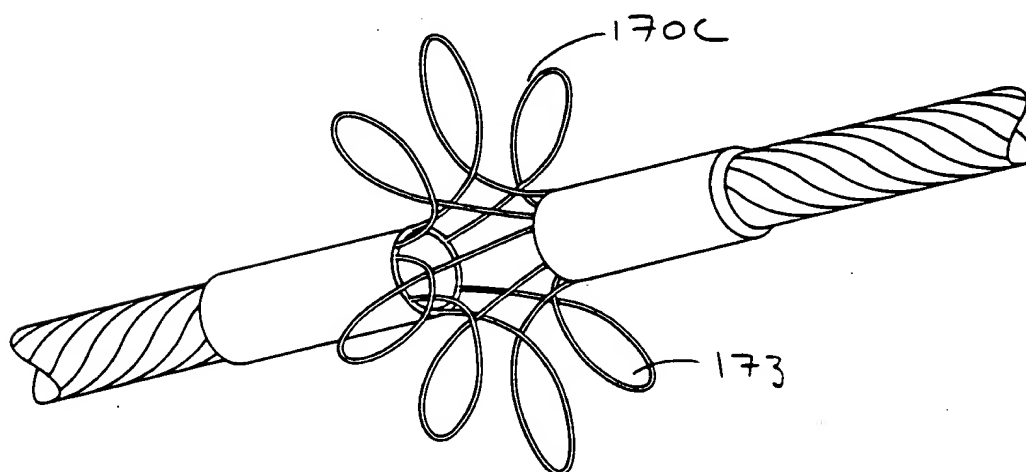


FIG. 14D

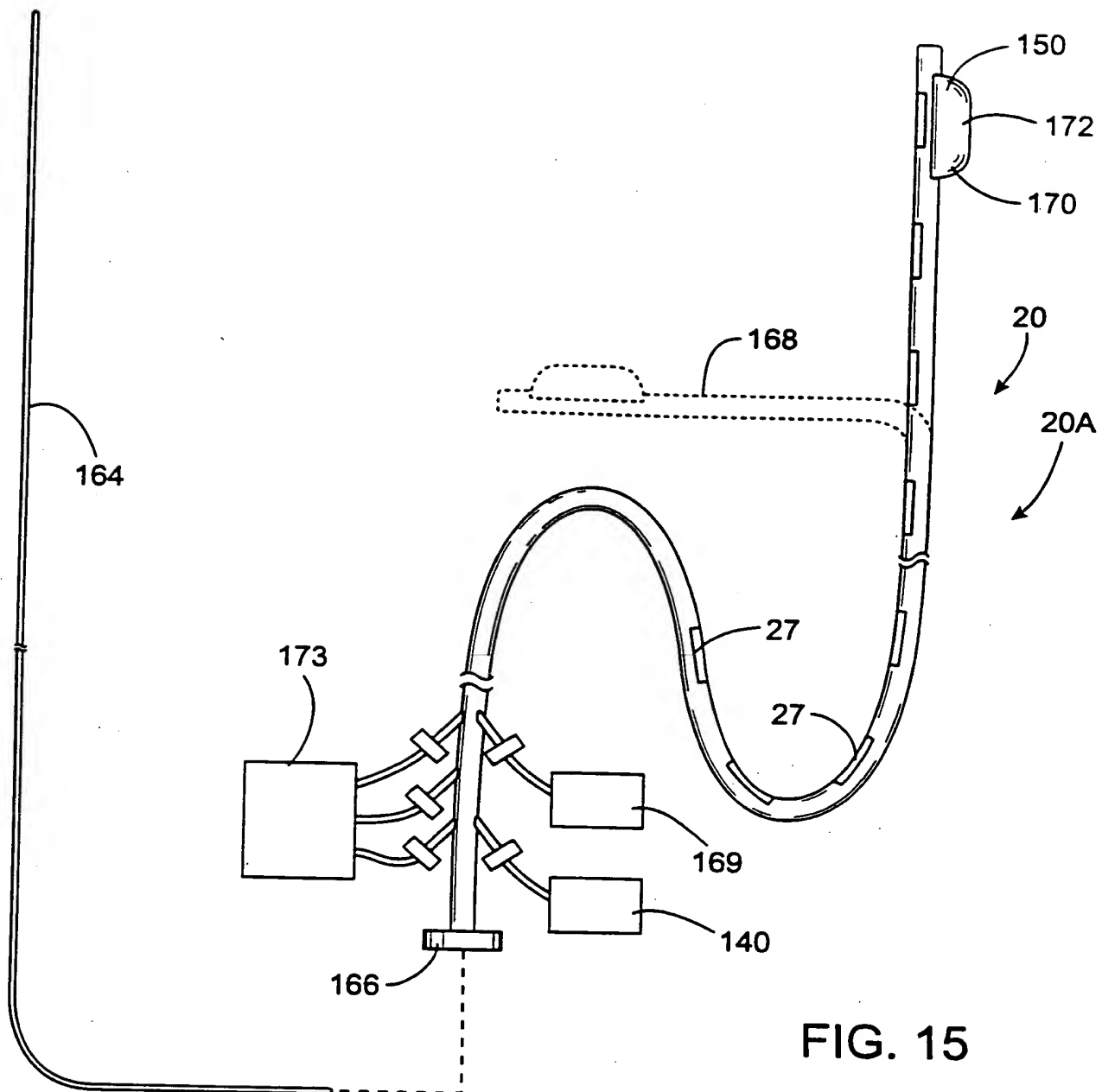


FIG. 15



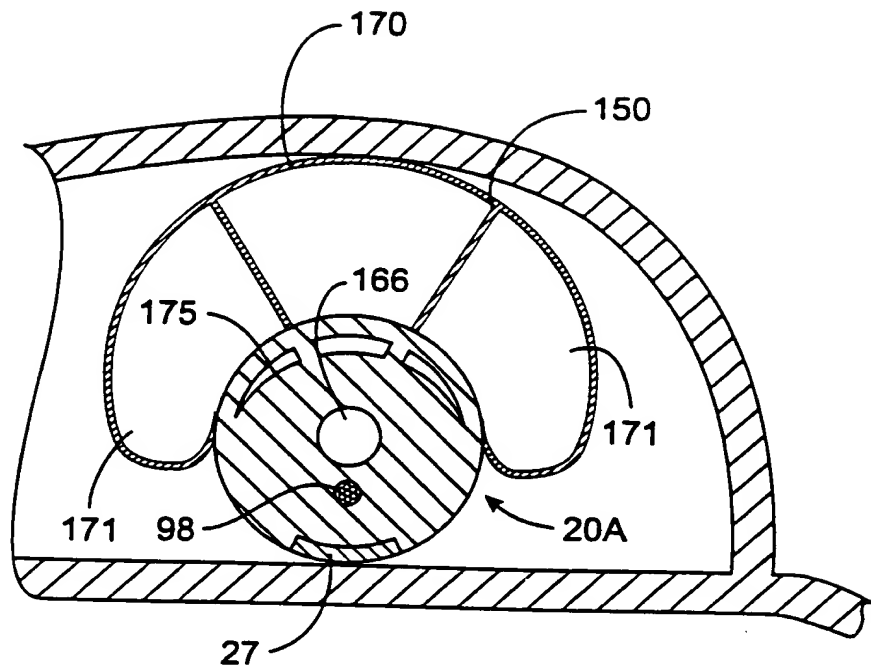


FIG. 16

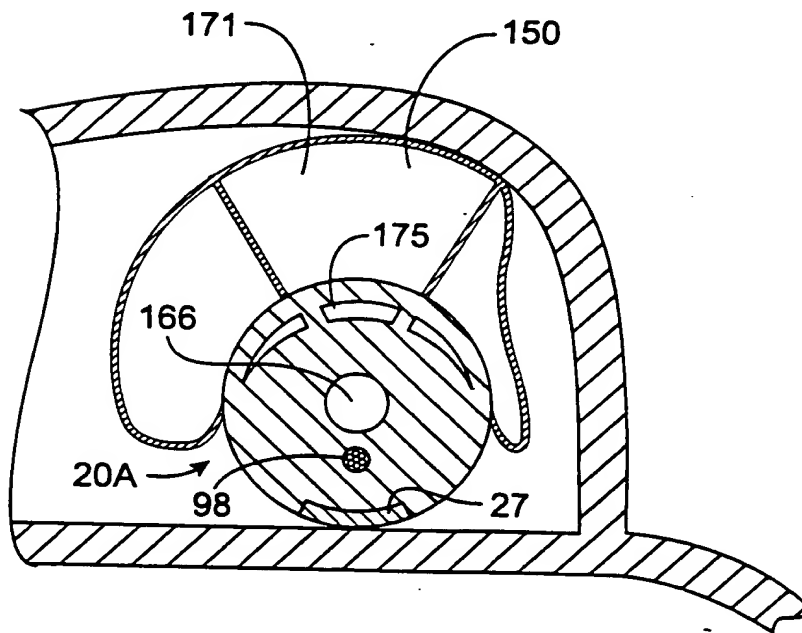


FIG. 17

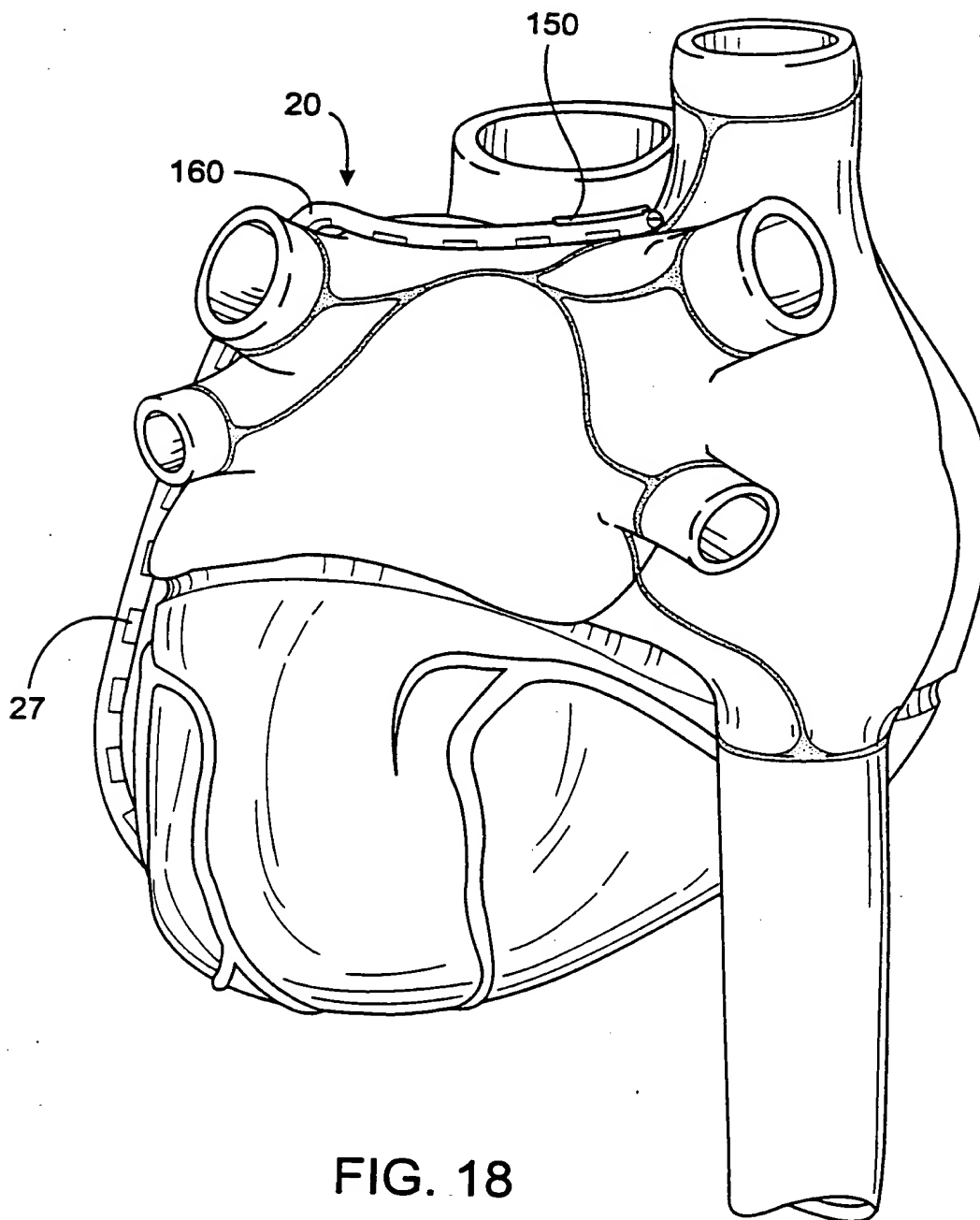


FIG. 18

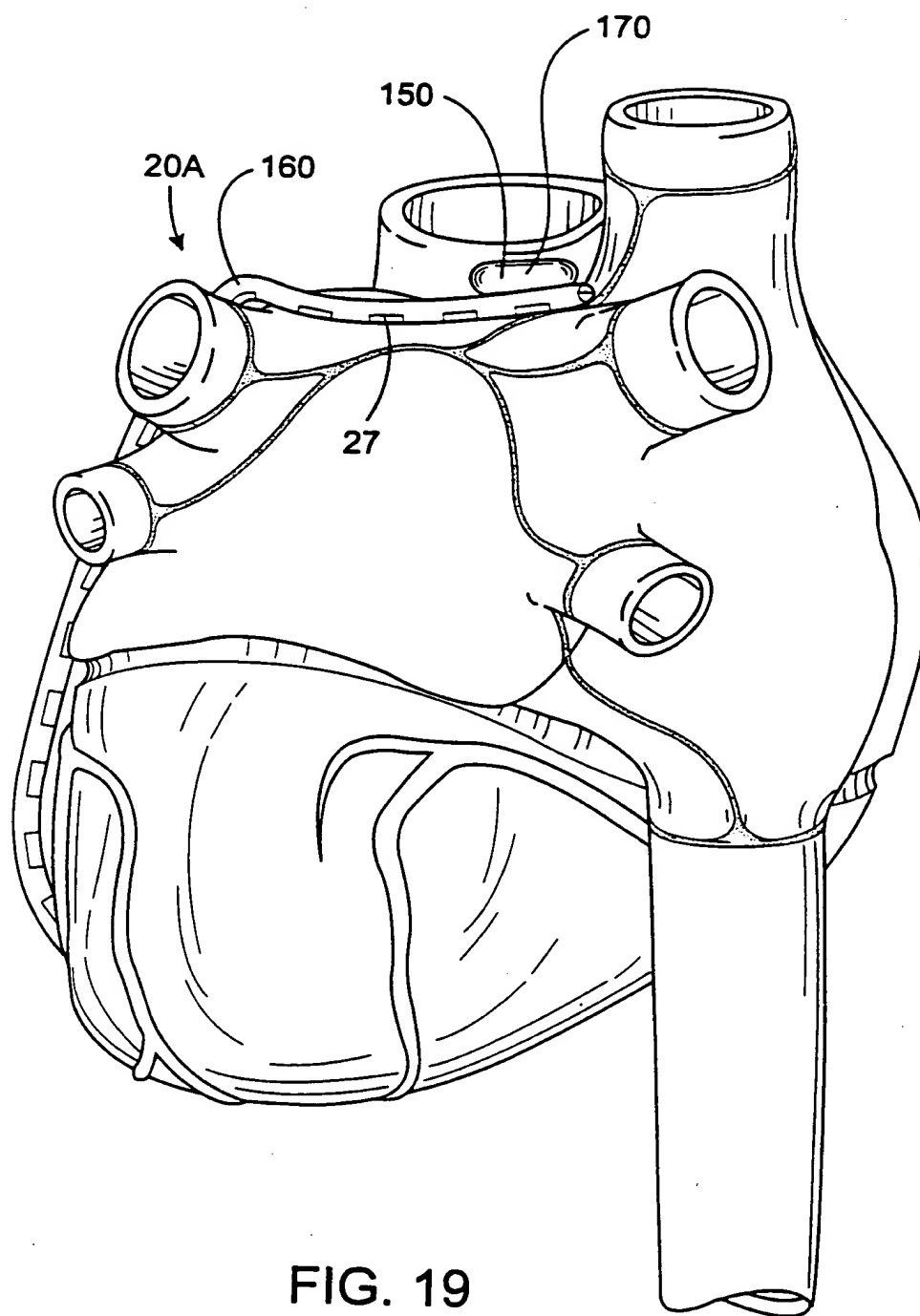


FIG. 19

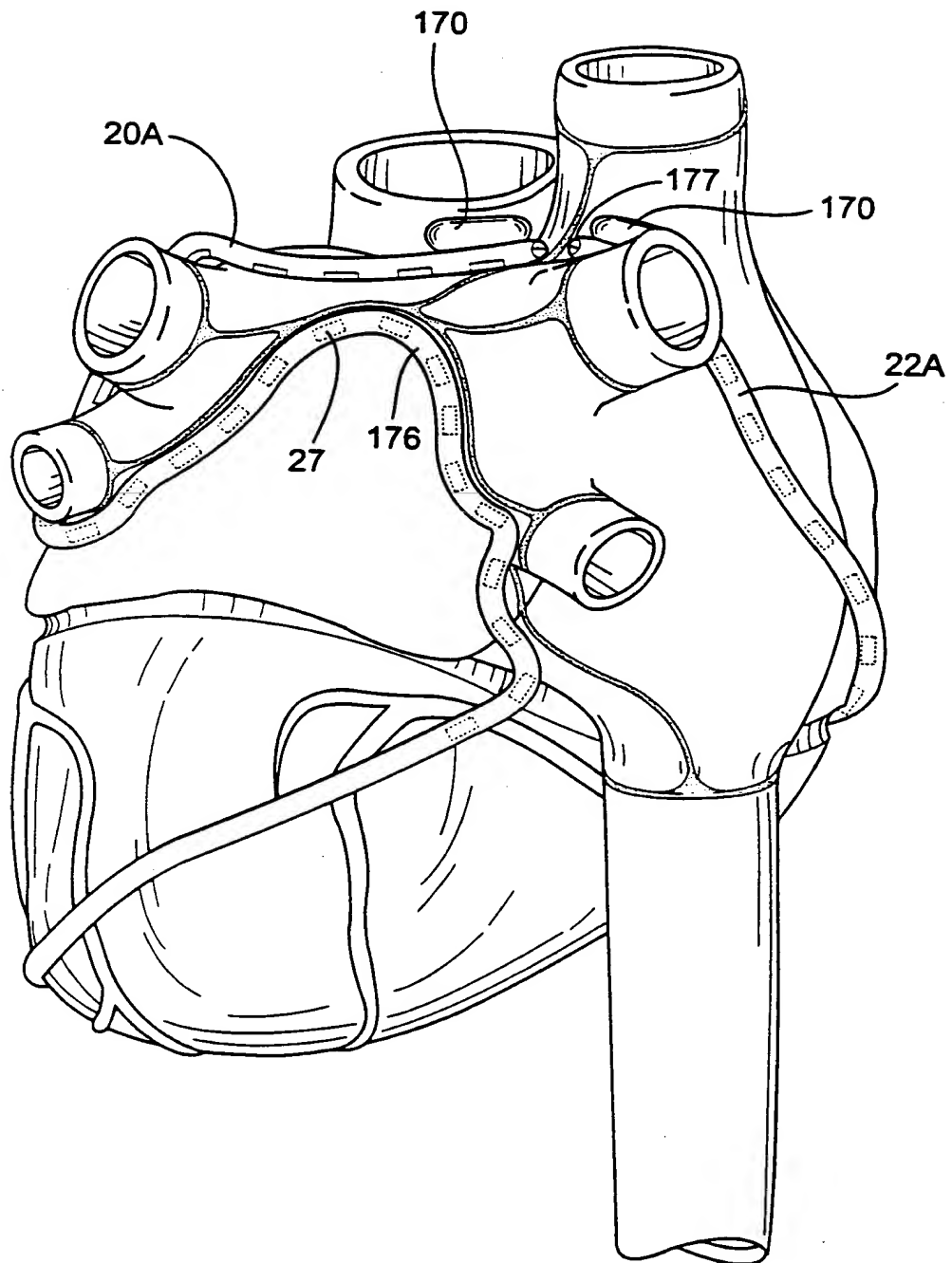


FIG. 20

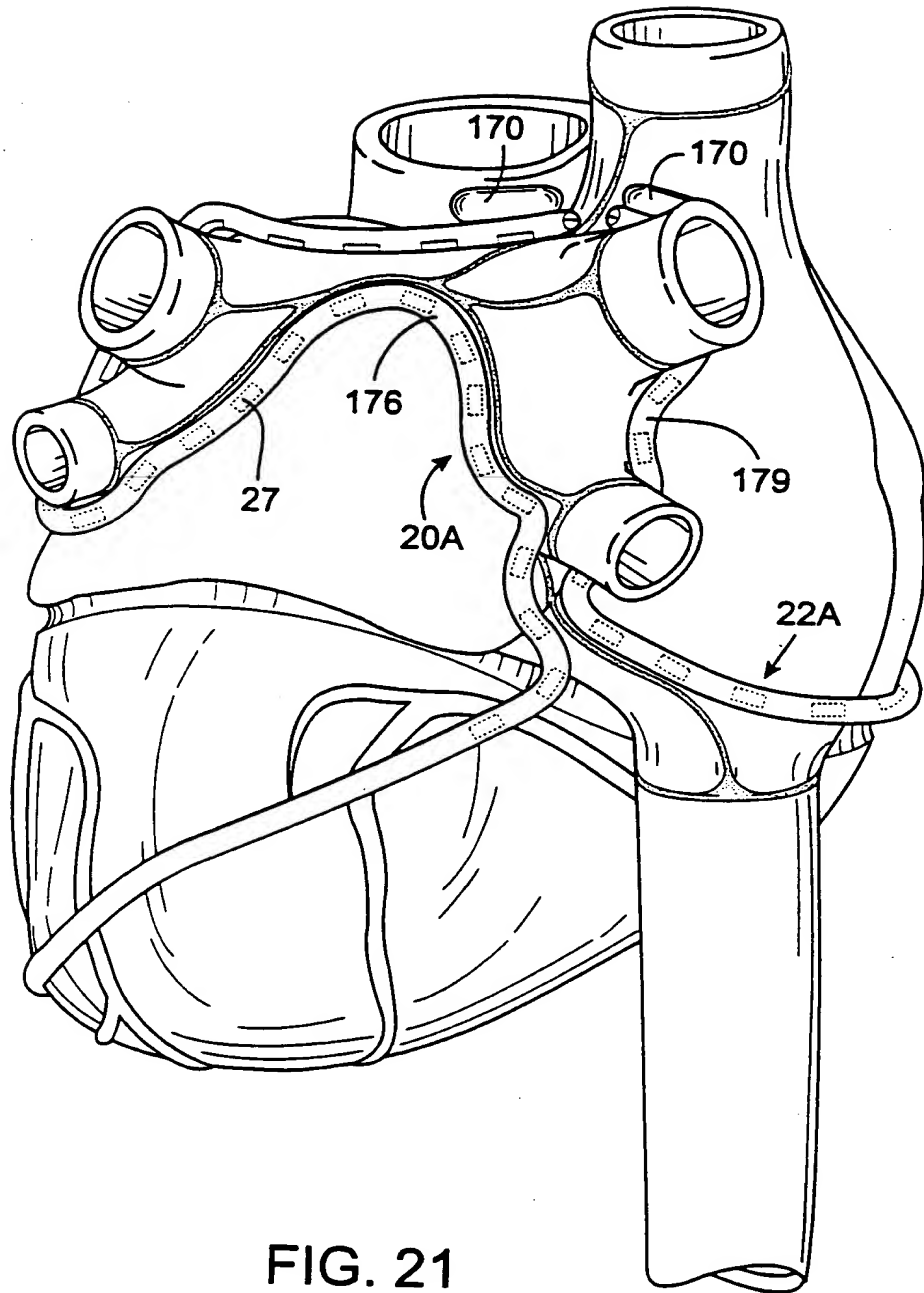


FIG. 21

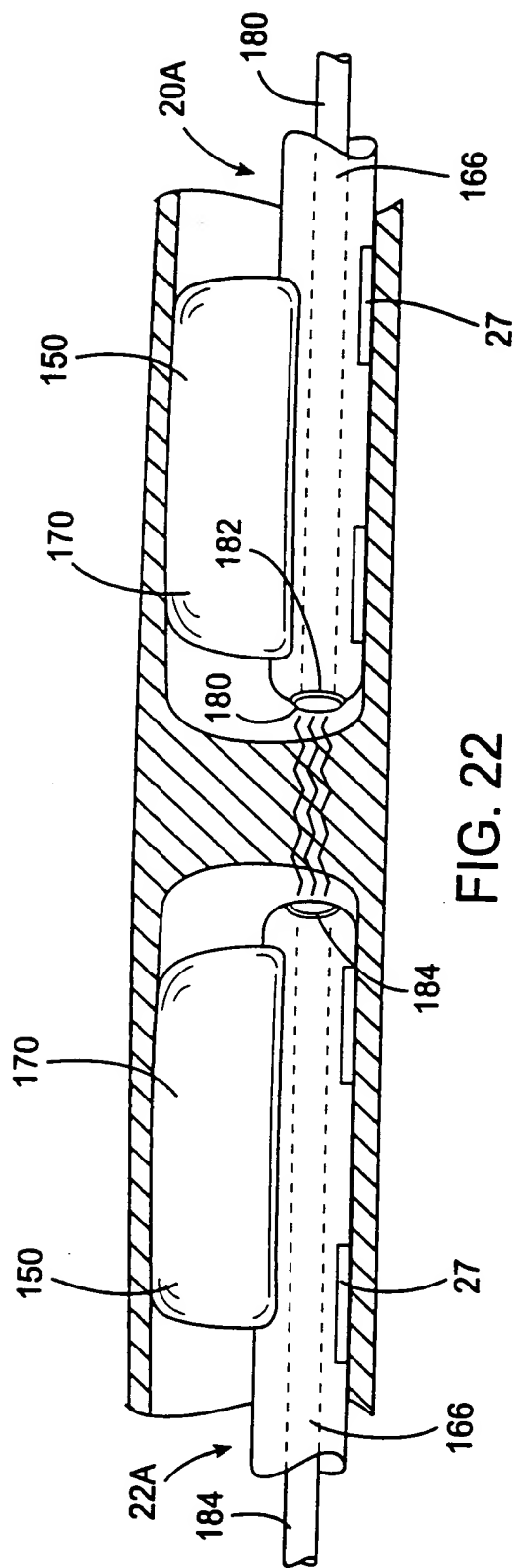


FIG. 22

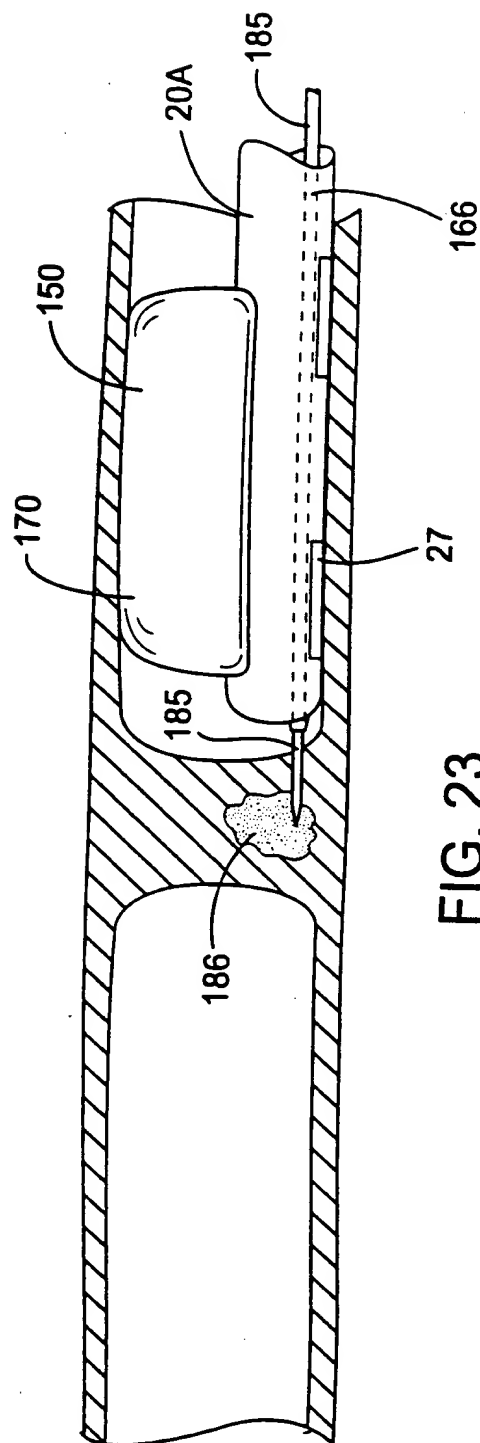


FIG. 23

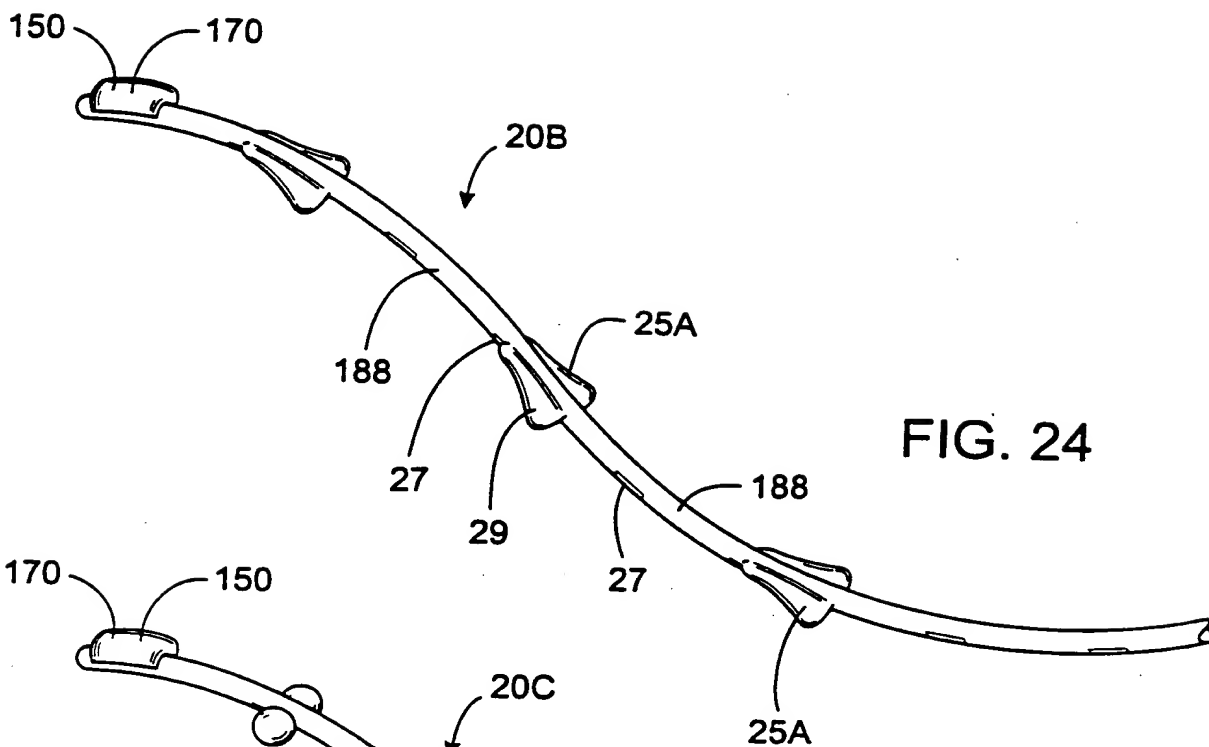


FIG. 24

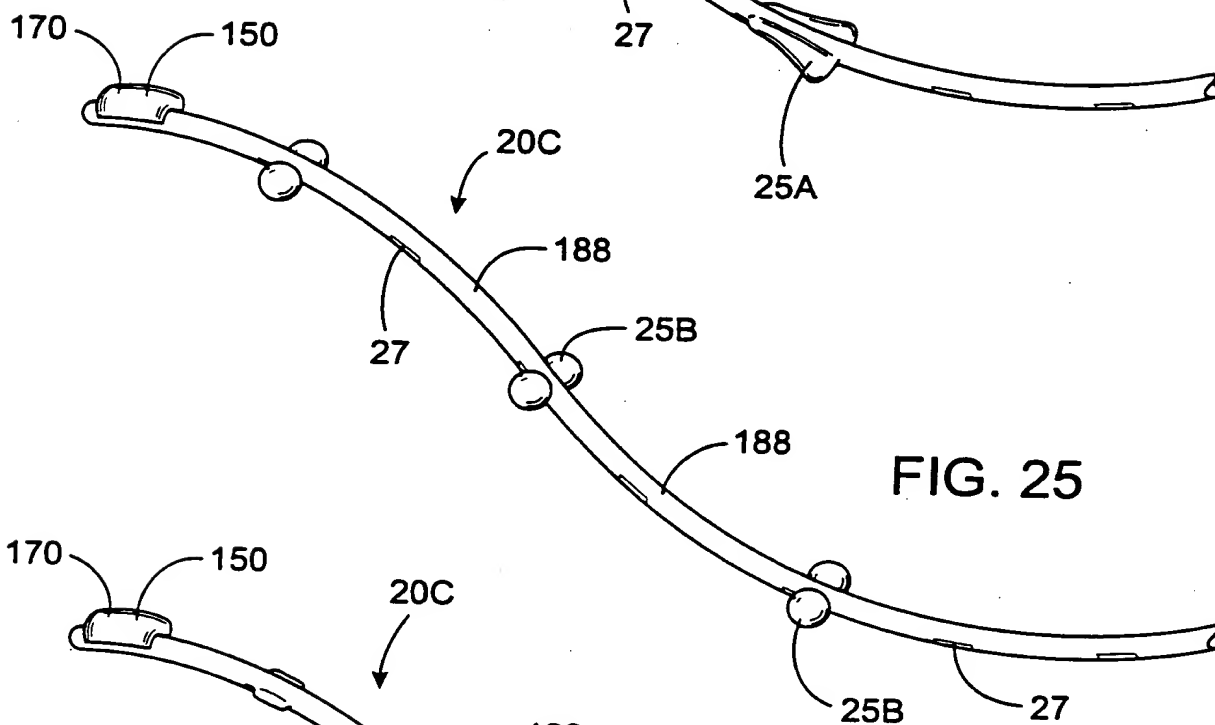


FIG. 25

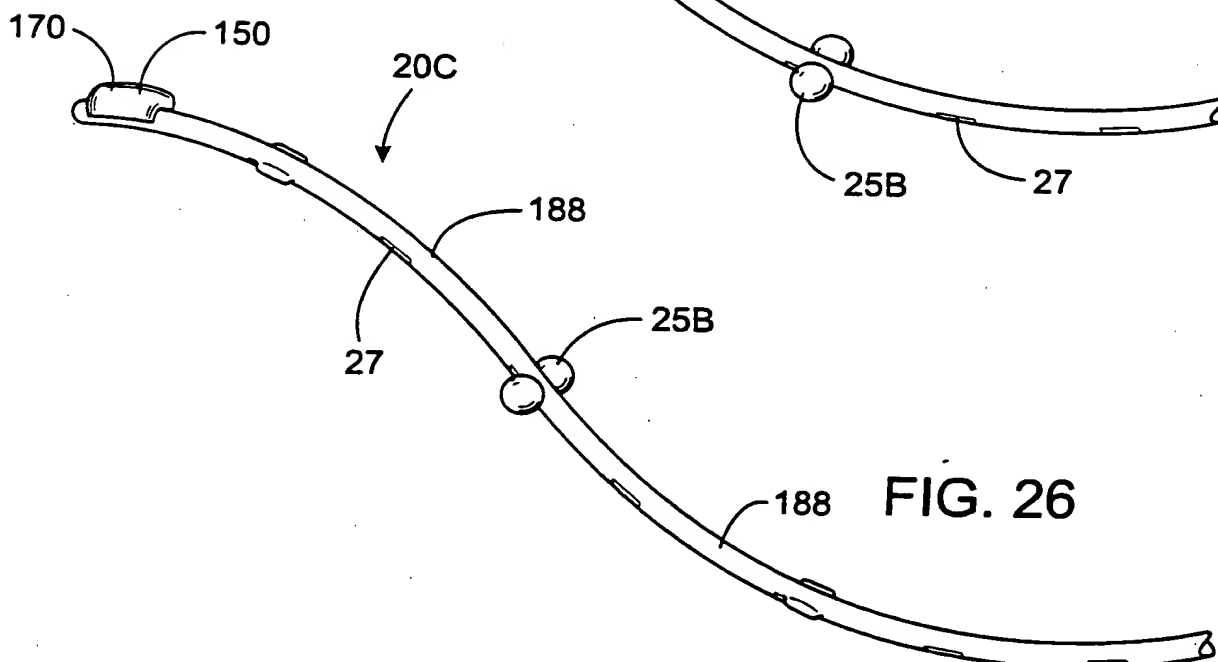


FIG. 26

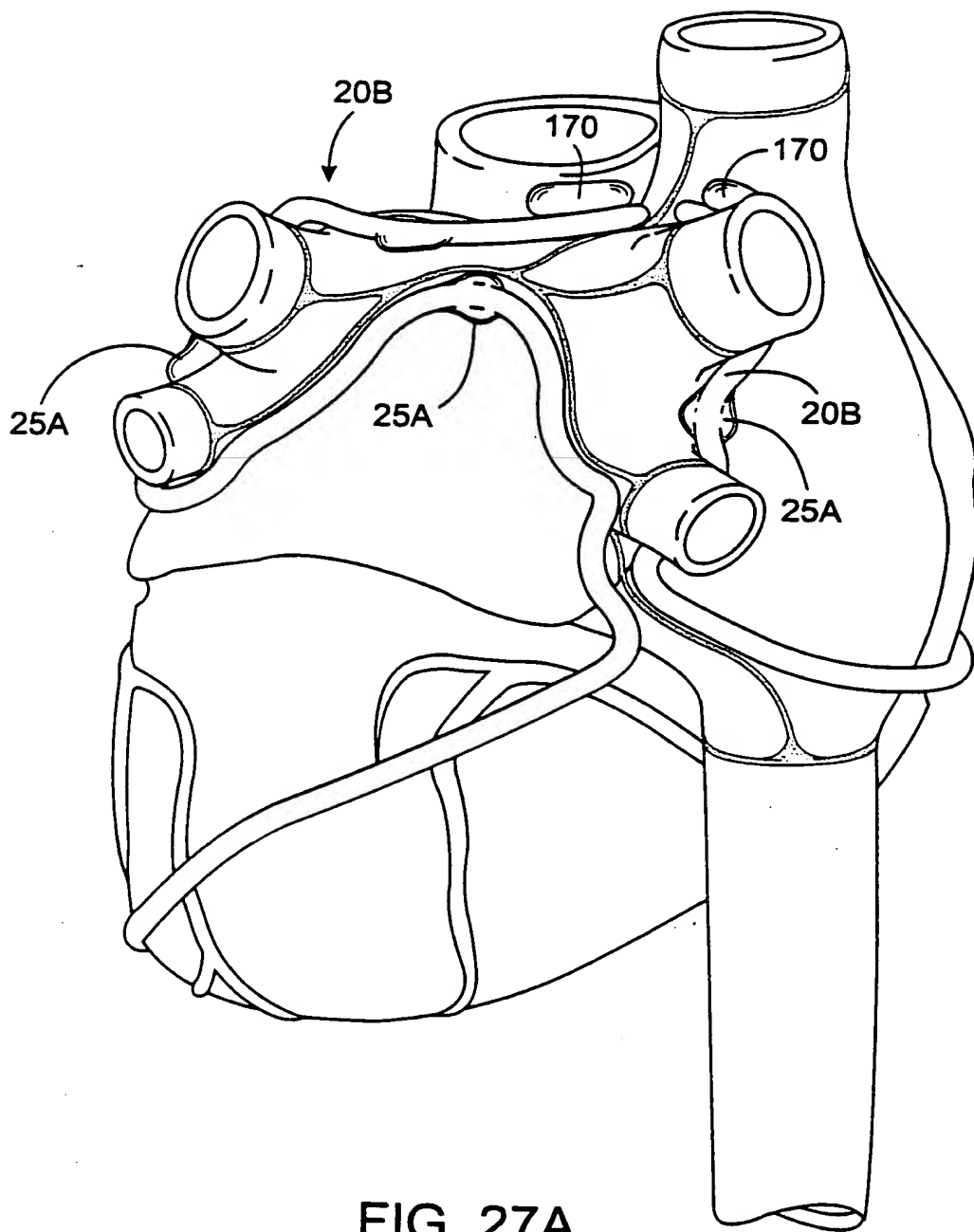


FIG. 27A



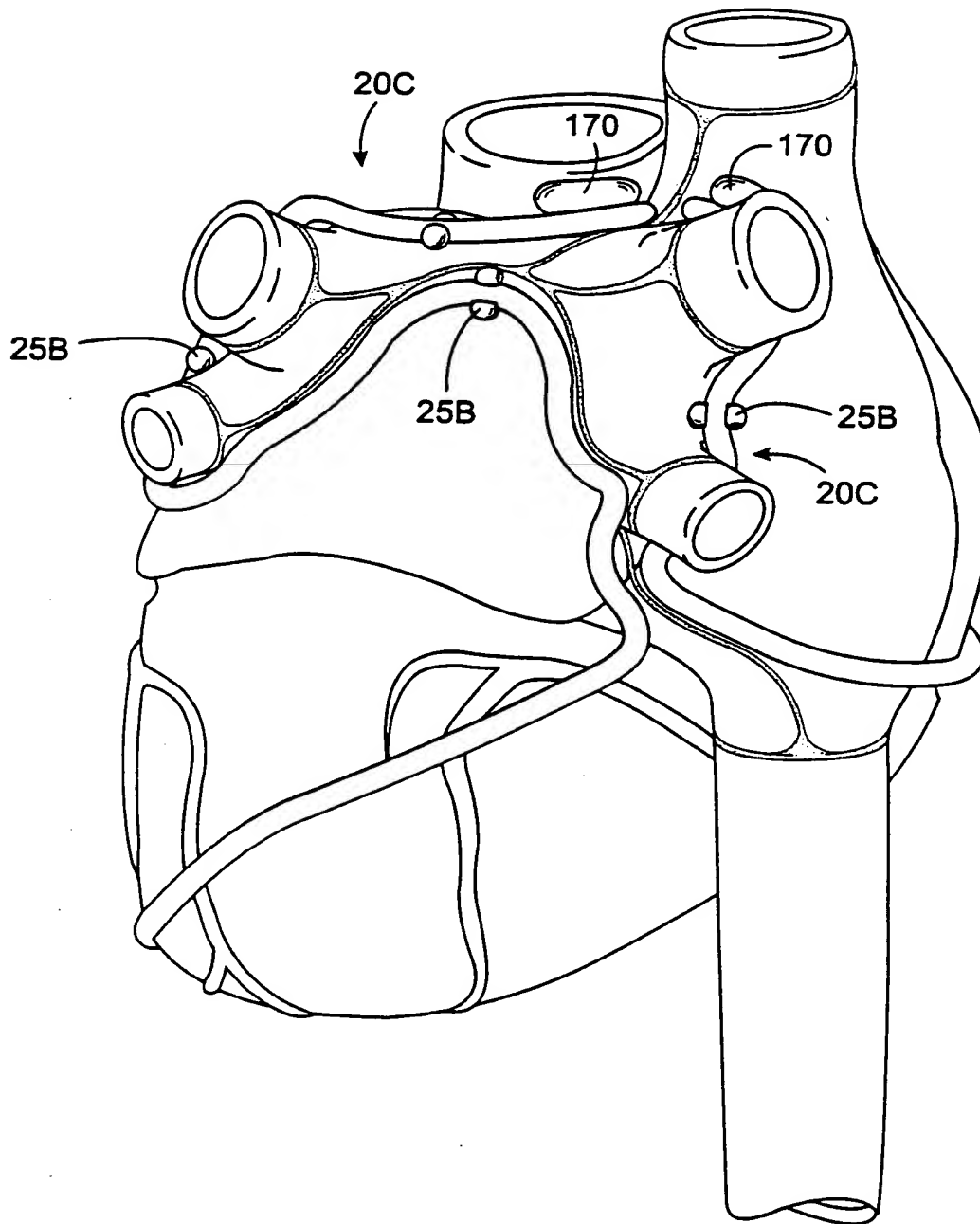


FIG. 27B

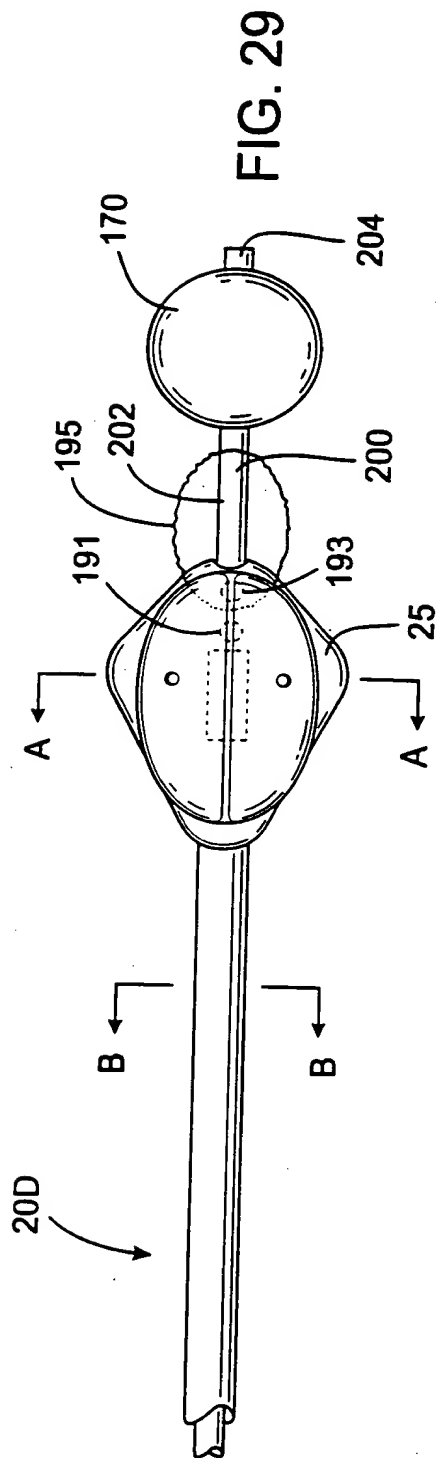


FIG. 29

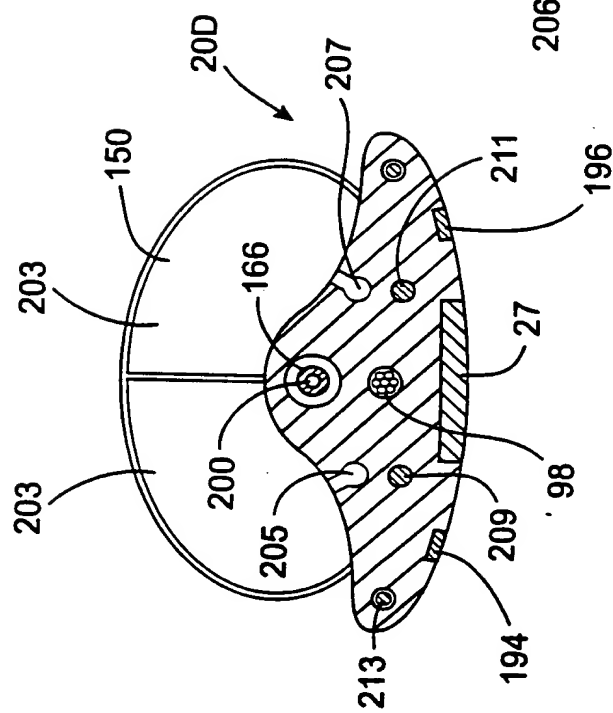


FIG. 30

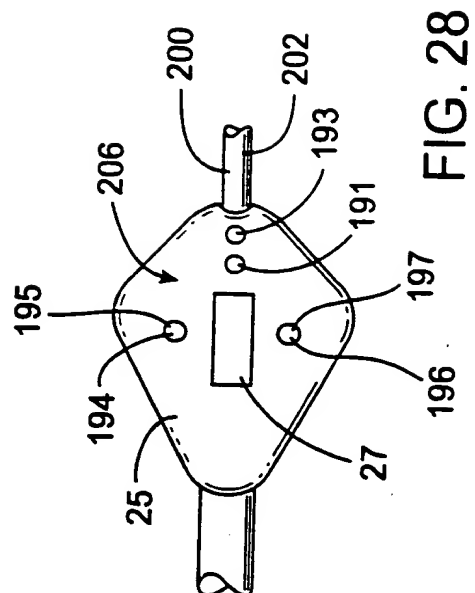


FIG. 28

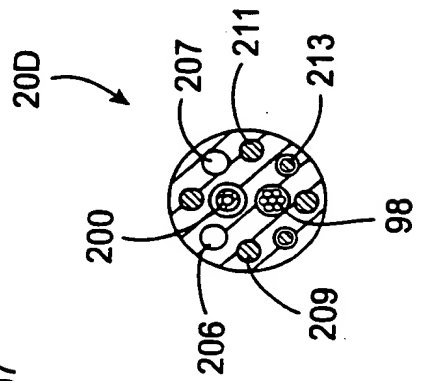


FIG. 31



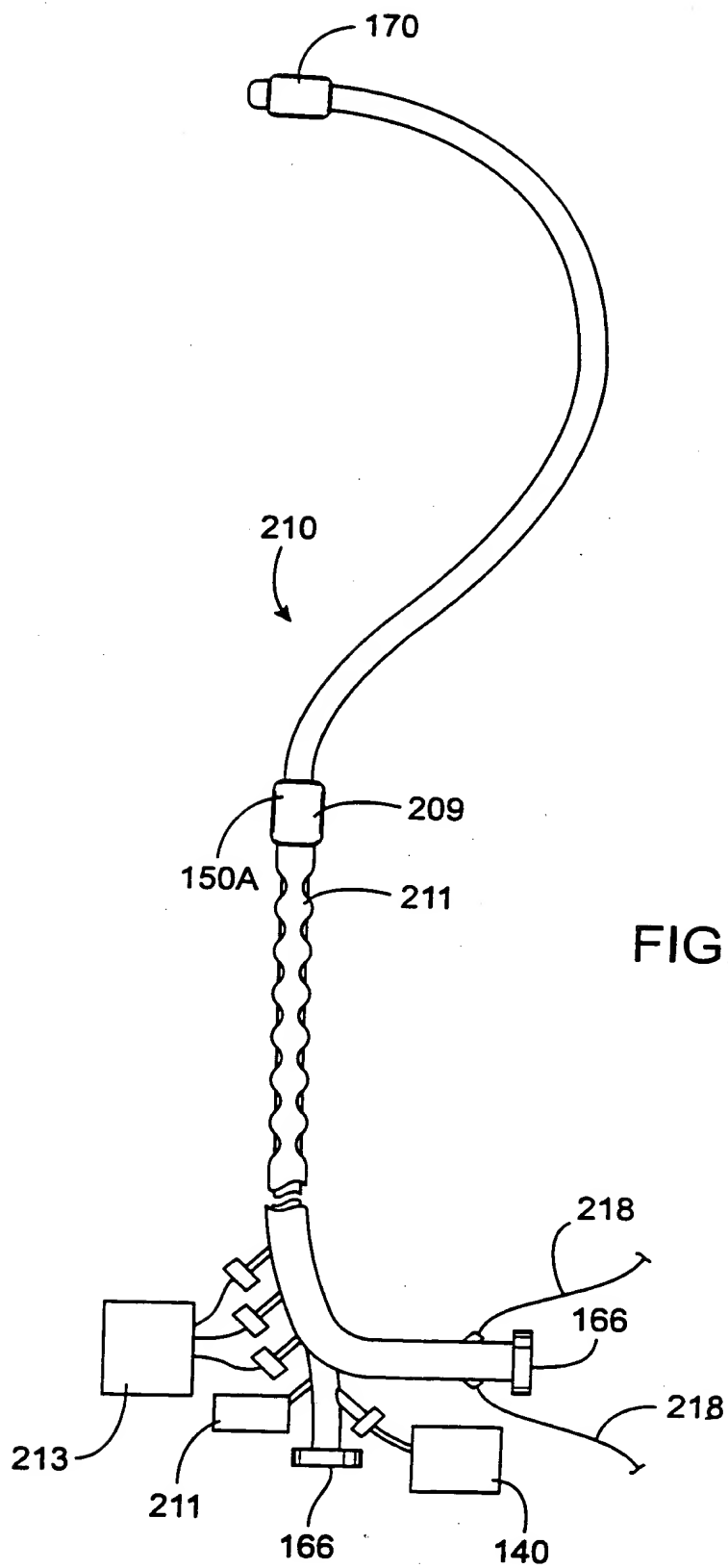
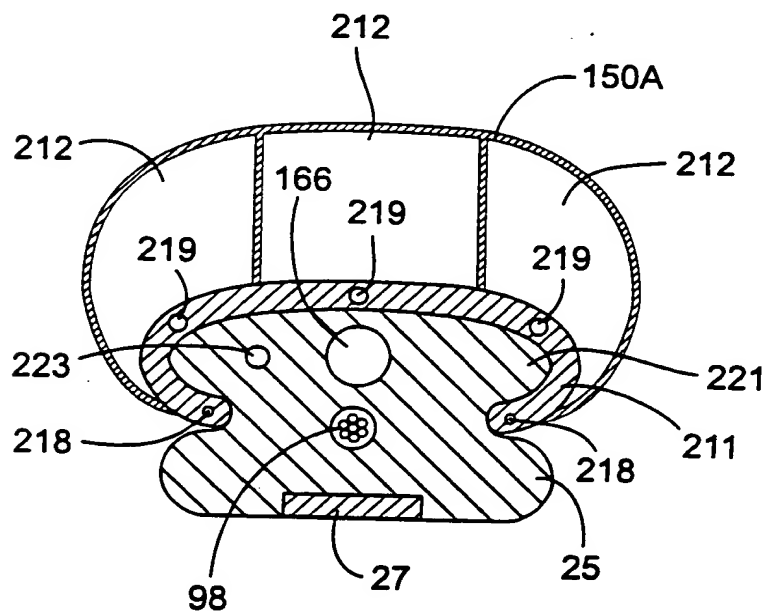
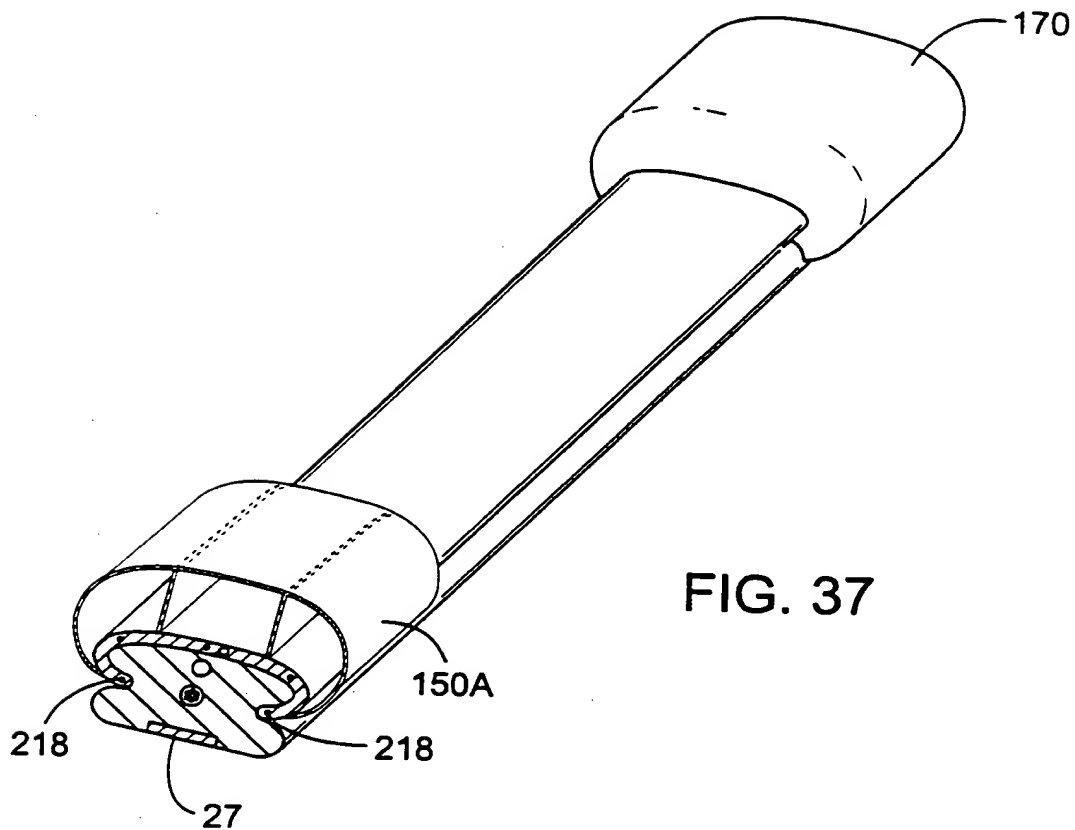


FIG. 36



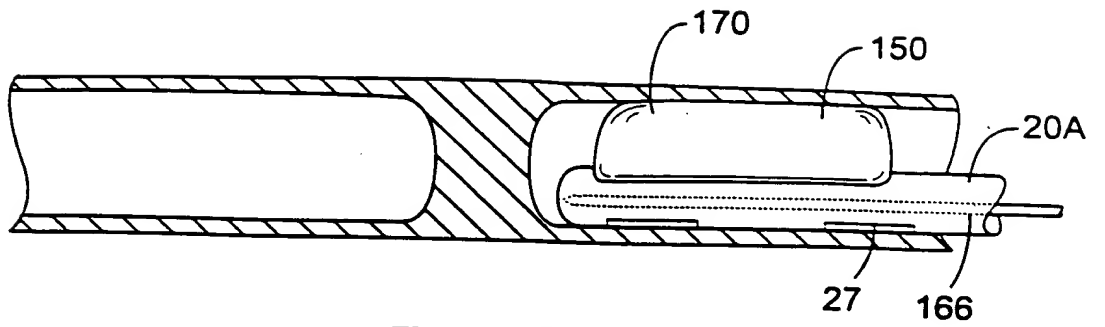


FIG. 39

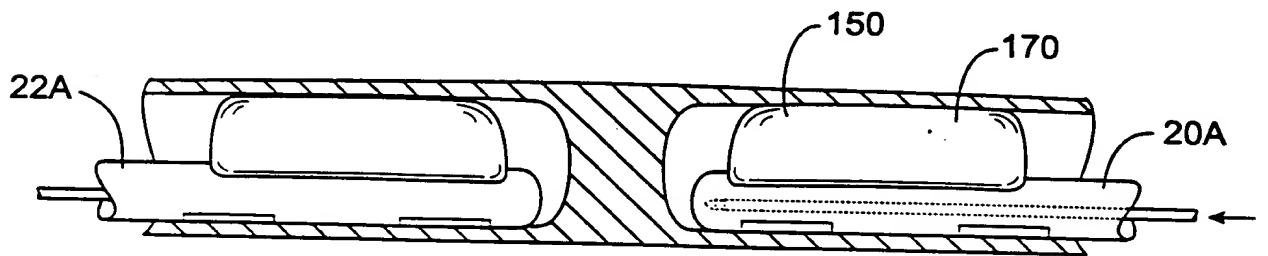


FIG. 40

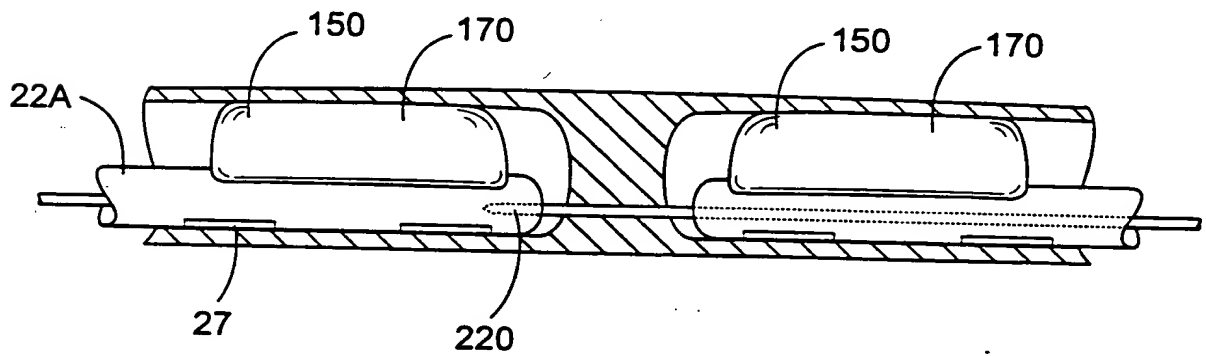


FIG. 41

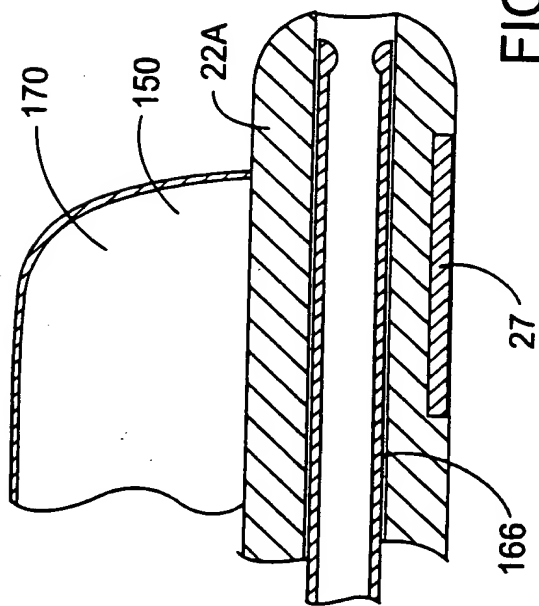


FIG. 42

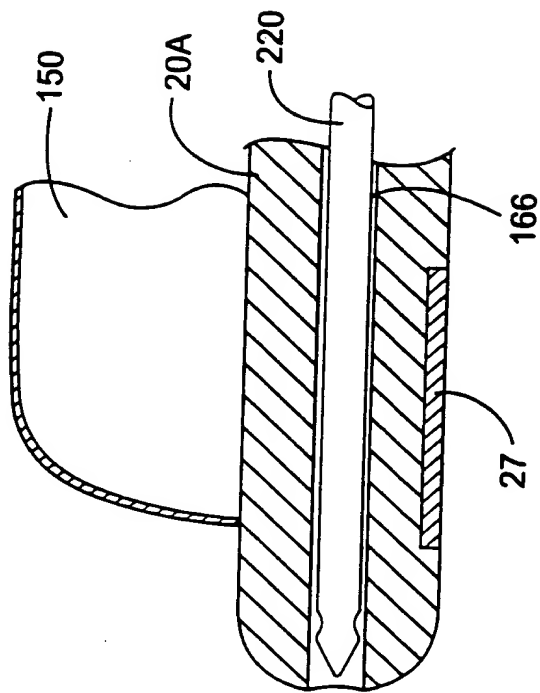


FIG. 43

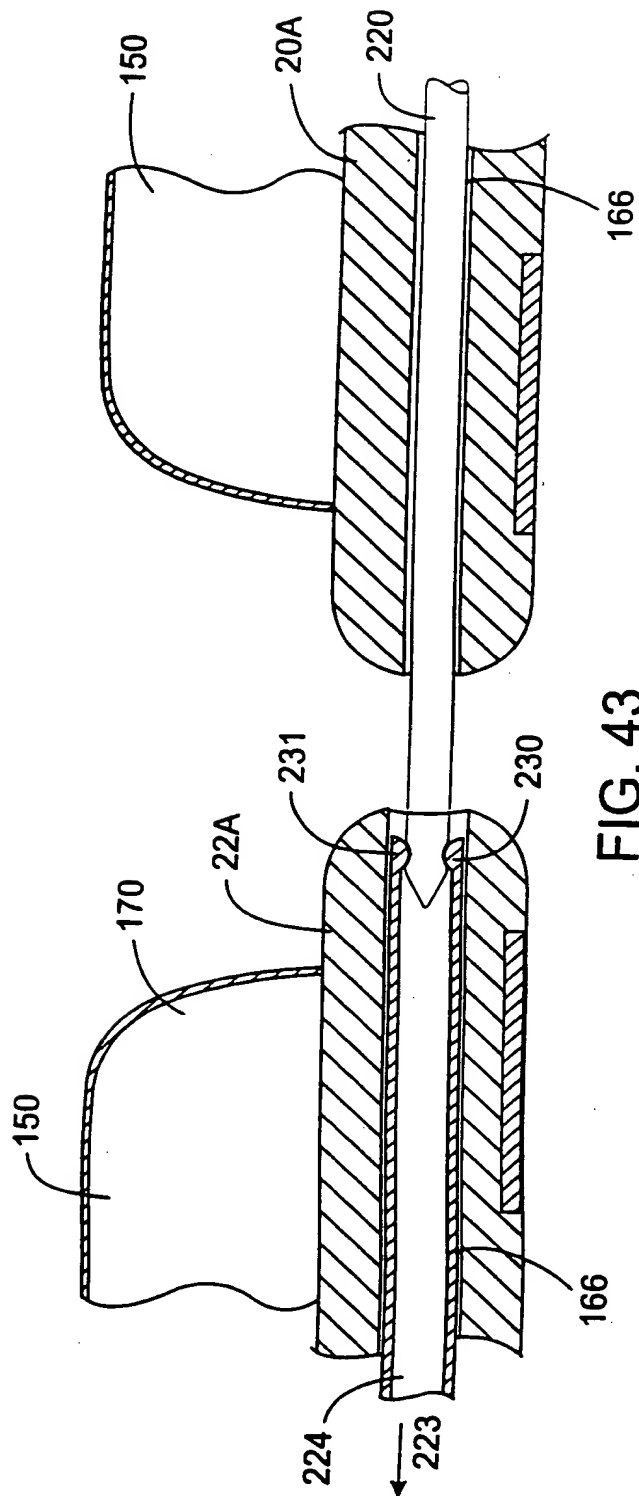


FIG. 44

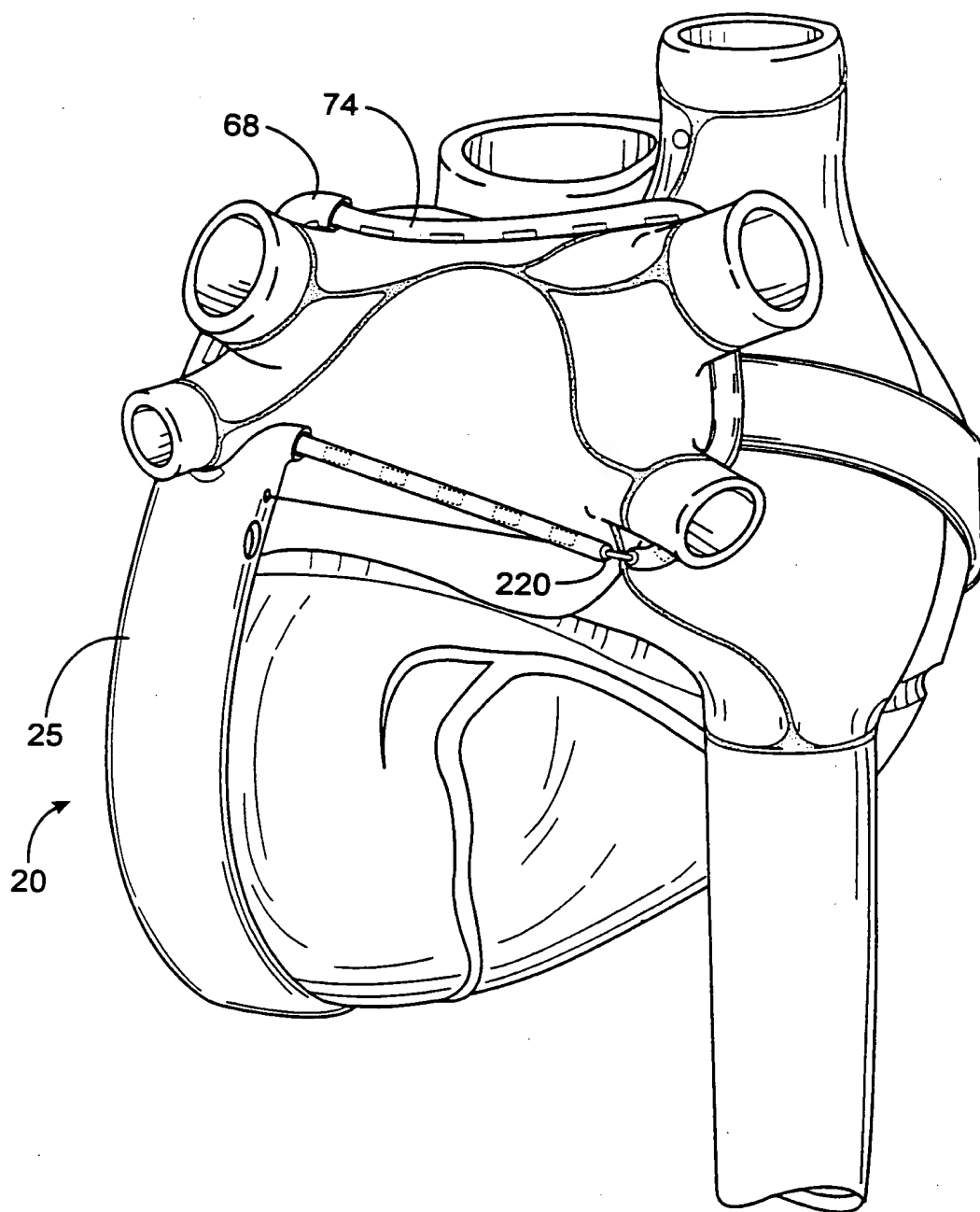


FIG. 44



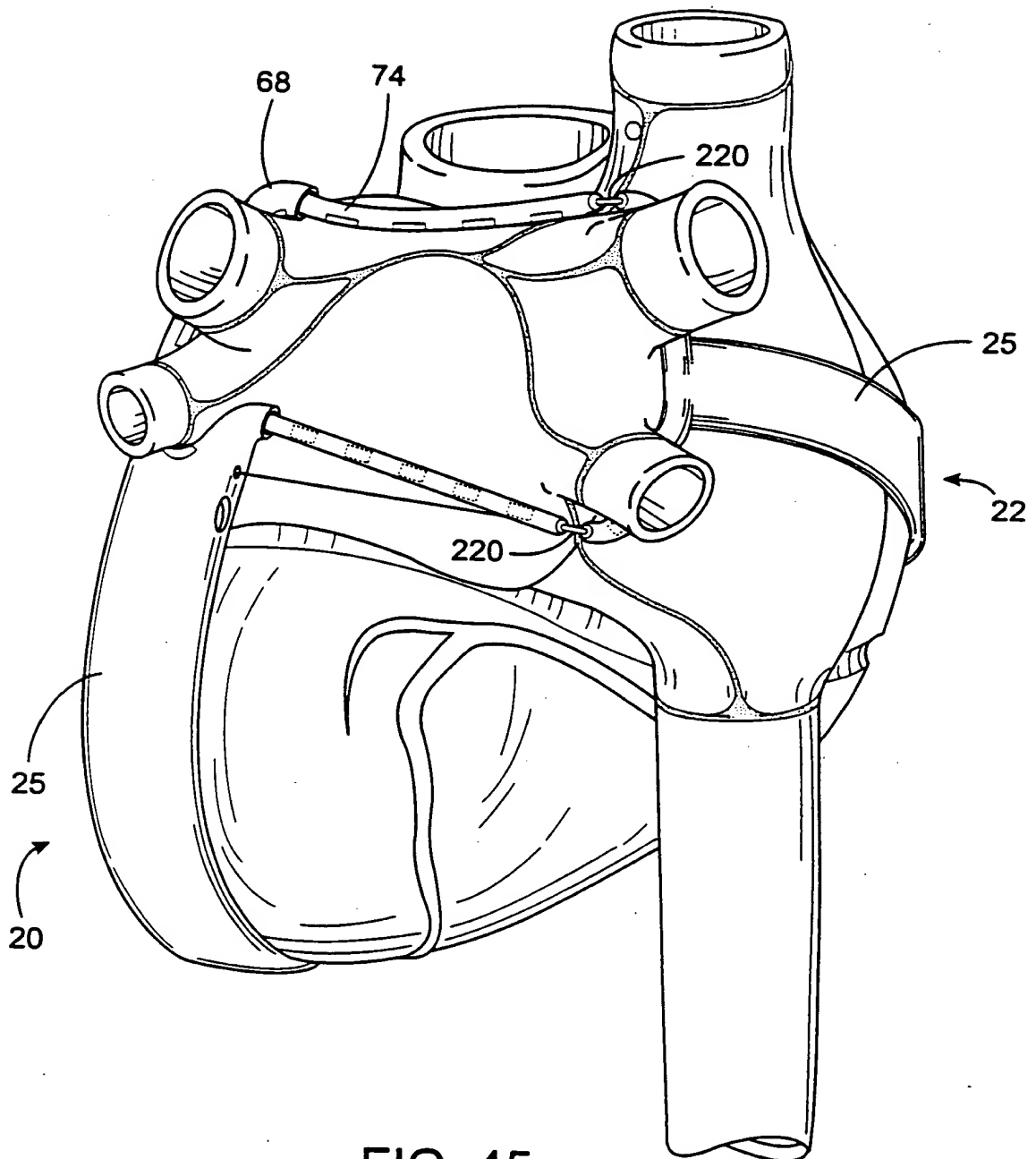


FIG. 45

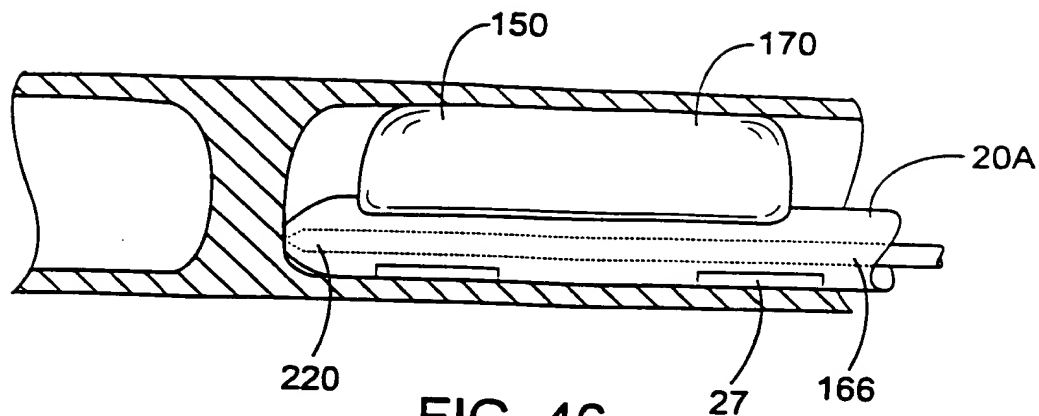


FIG. 46

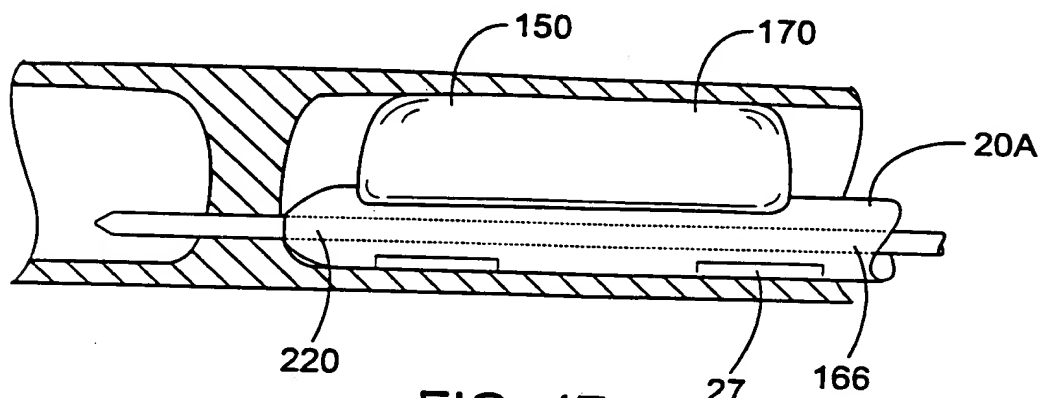


FIG. 47

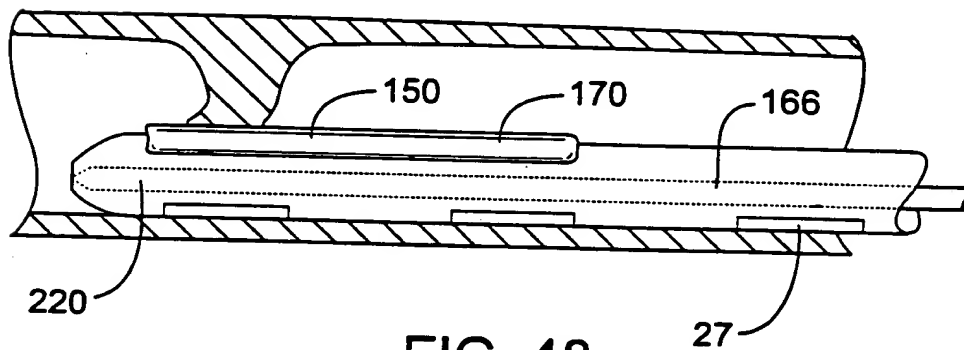
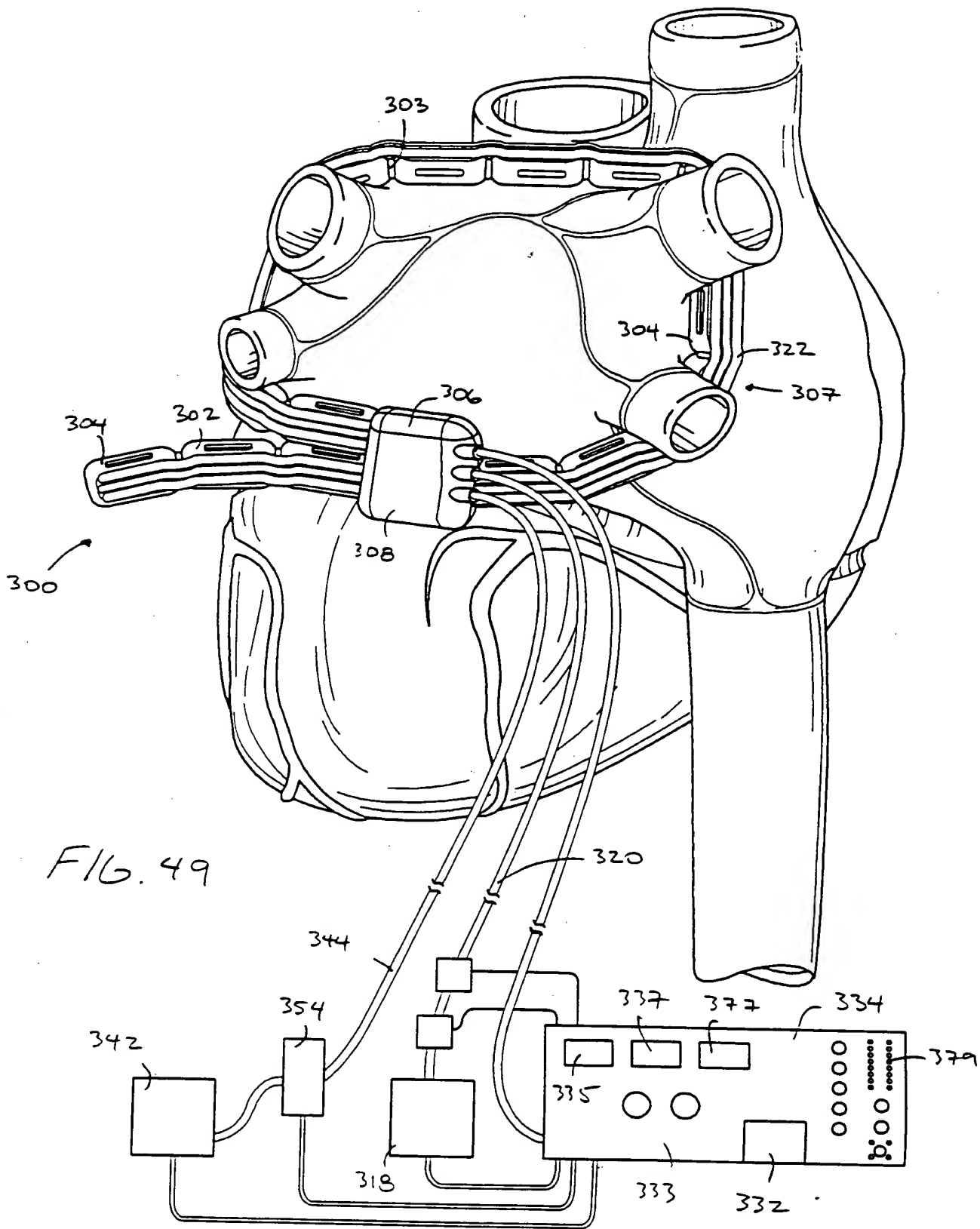


FIG. 48

FIG. 49



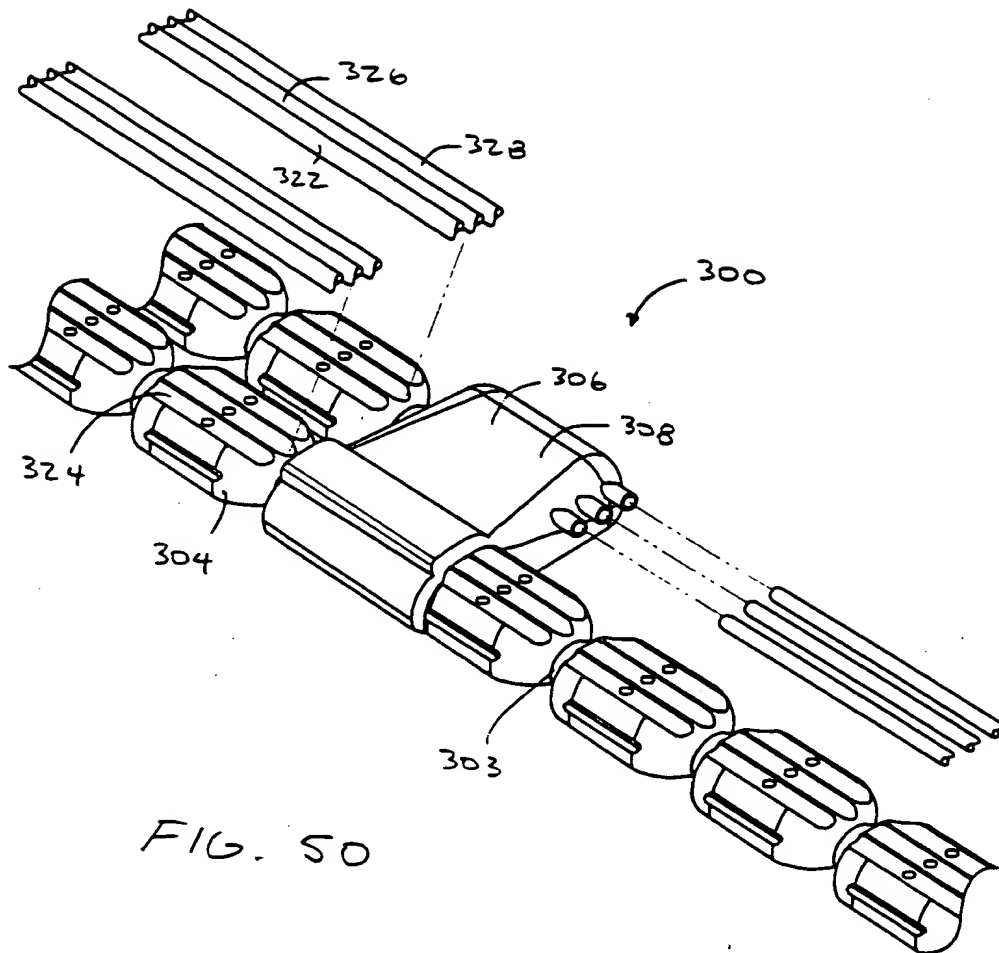


FIG. 50

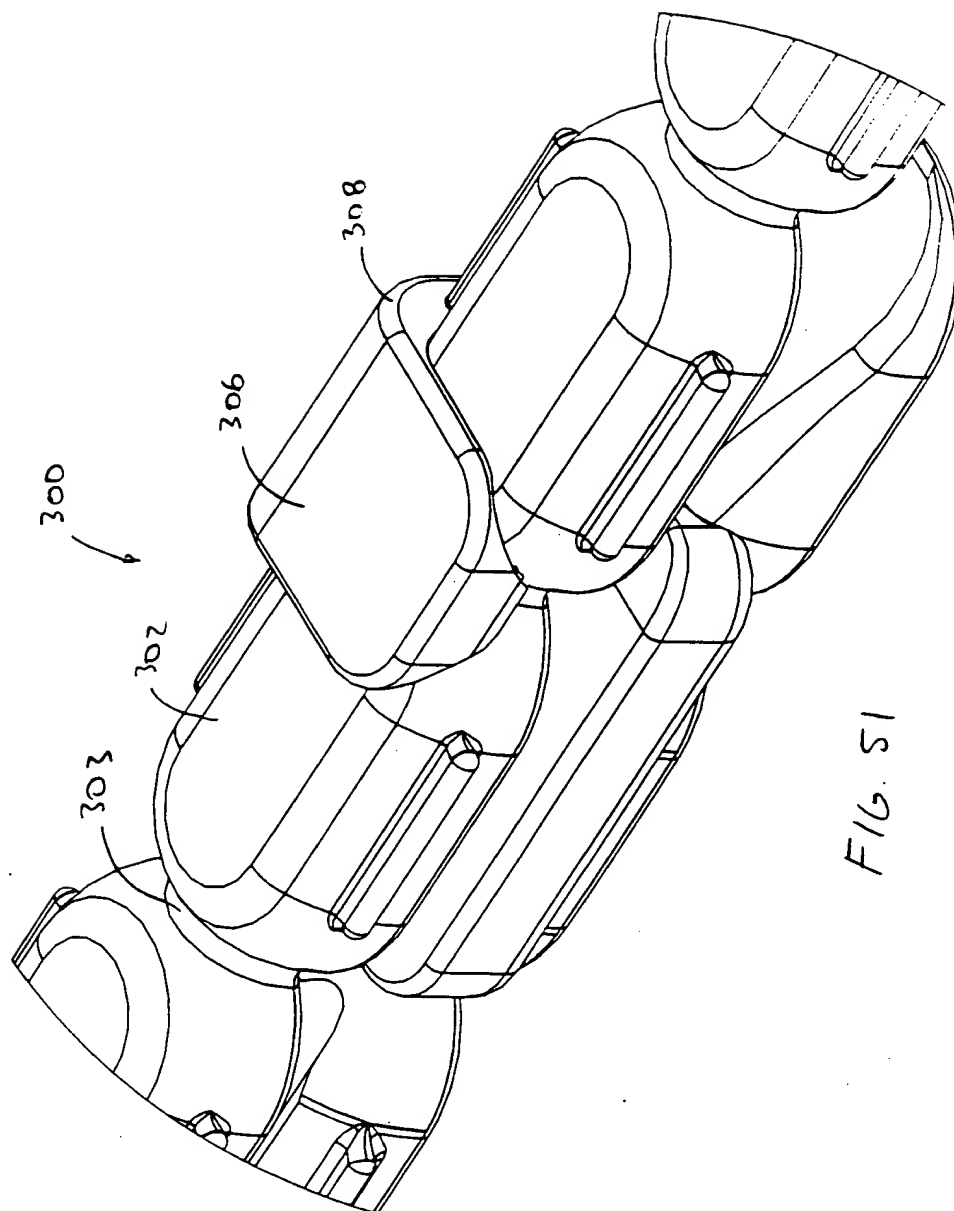


FIG. 51

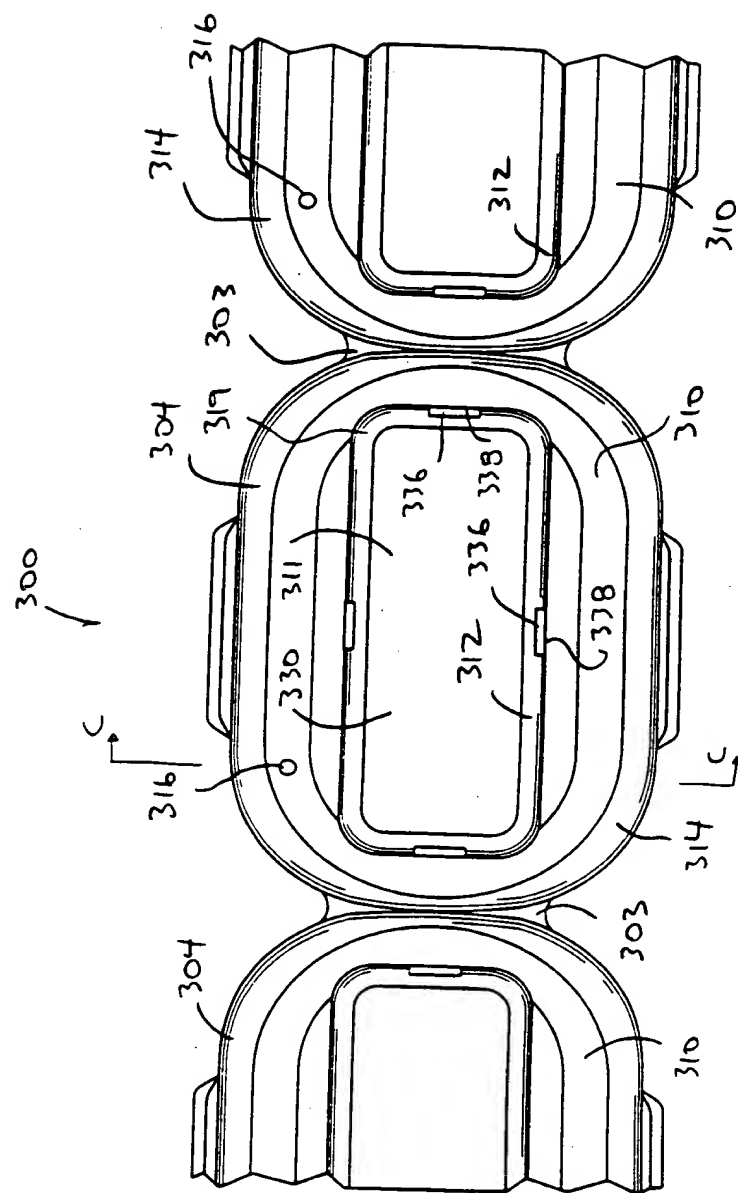


Fig. 52

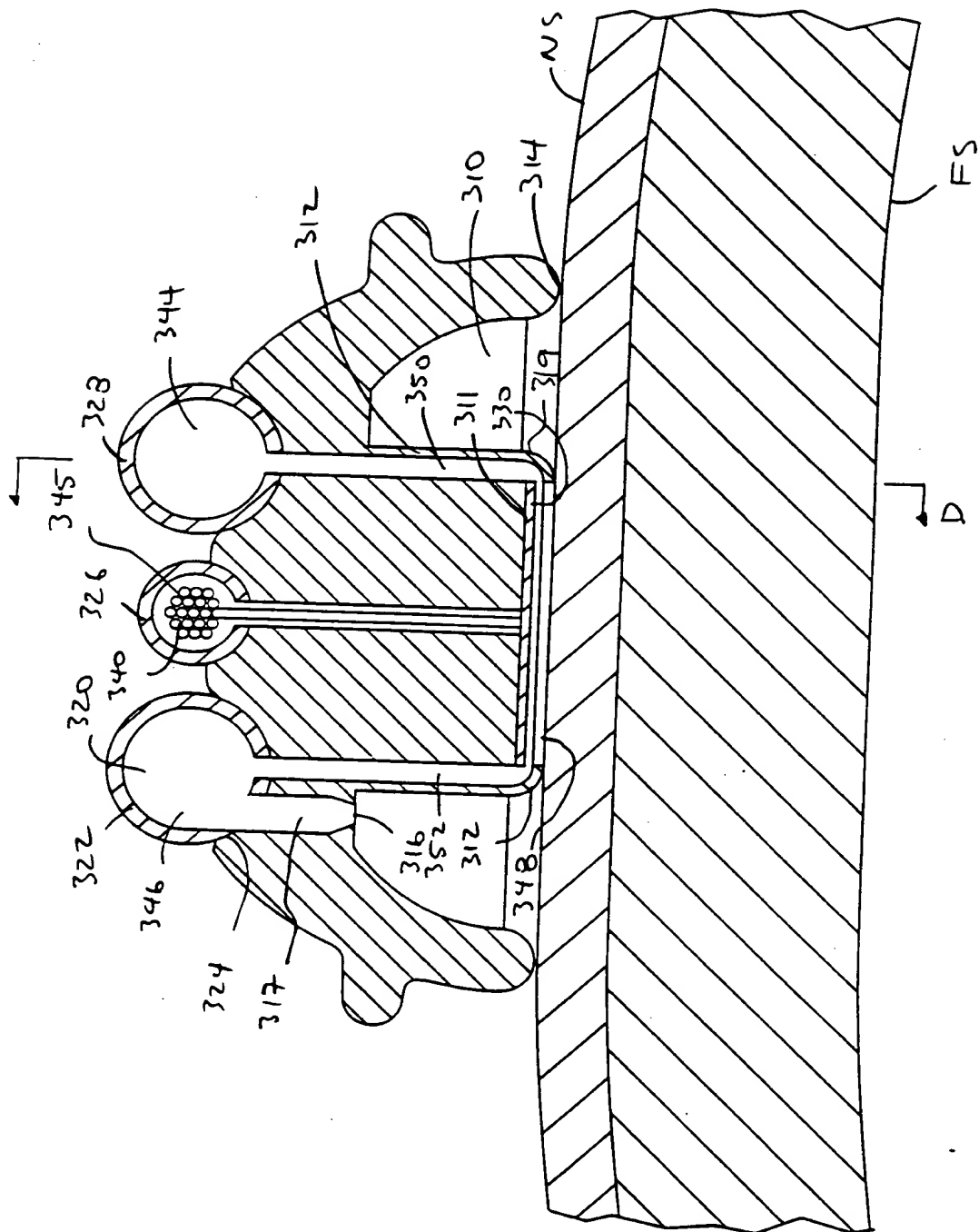


Fig. 53A.

FIG. 5 is a cross-sectional view of the device of FIG. 1, taken along the line 5-5 of FIG. 1, showing the device in a closed position. The device includes a housing 100, a piston 110, a spring 120, and a valve 130. The piston 110 is biased by the spring 120 to a closed position, preventing fluid flow through the valve 130. The housing 100 includes a port 140 for fluid entry and a port 150 for fluid exit. The valve 130 is located between the two ports and is closed by the piston 110. The spring 120 is located between the piston 110 and the housing 100. The device is shown in a cross-sectional view, with the housing 100 and piston 110 shown in hatched areas. The spring 120 is shown as a coiled line. The valve 130 is shown as a circular structure with a central opening. The port 140 is shown as a circular opening in the housing 100. The port 150 is shown as a circular opening in the housing 100. The device is shown in a closed position, with the piston 110 blocking the valve 130.

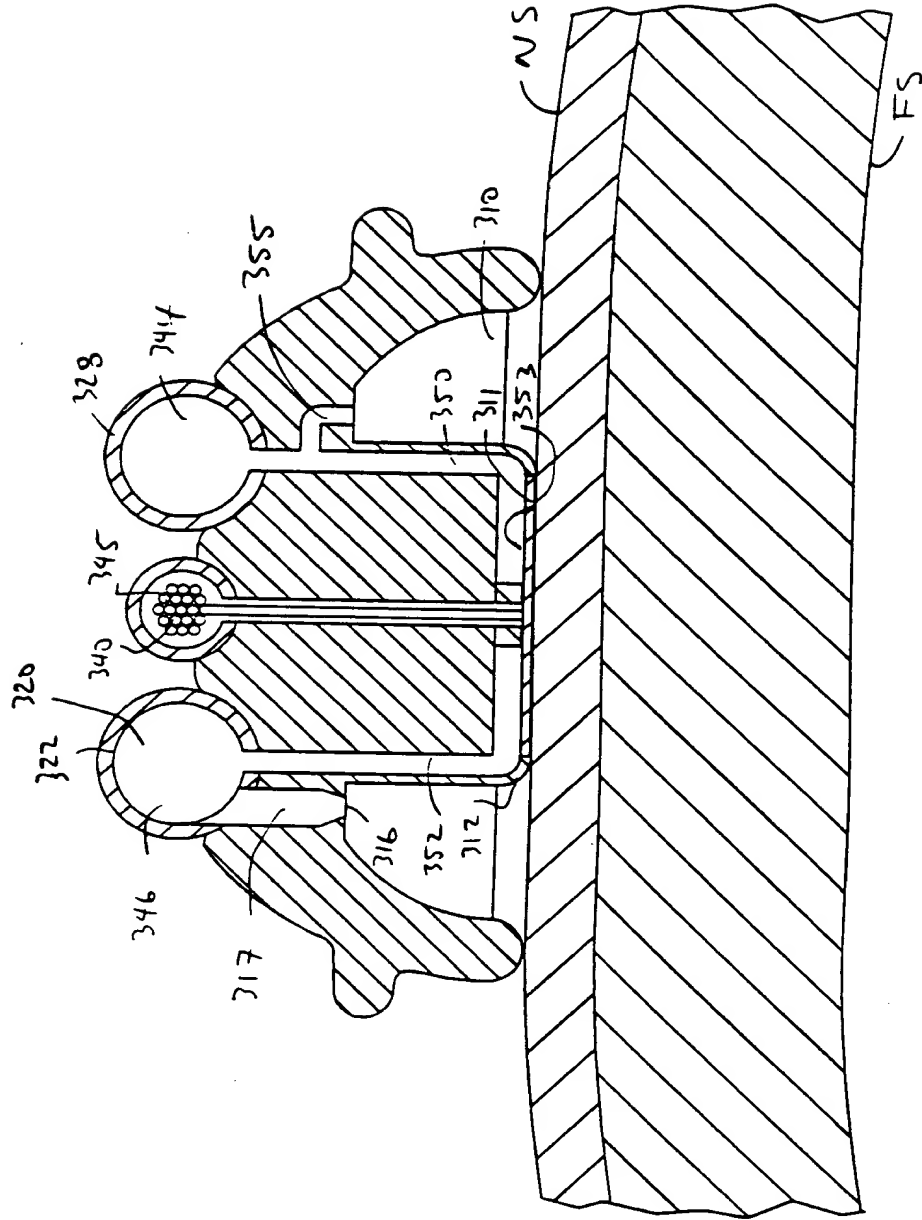
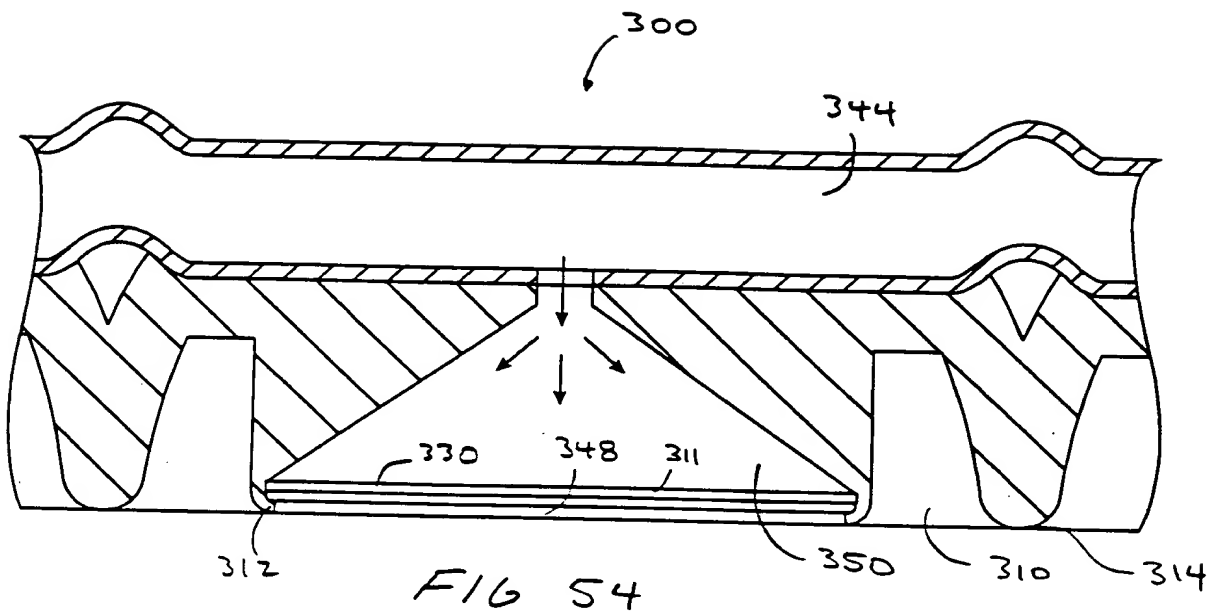
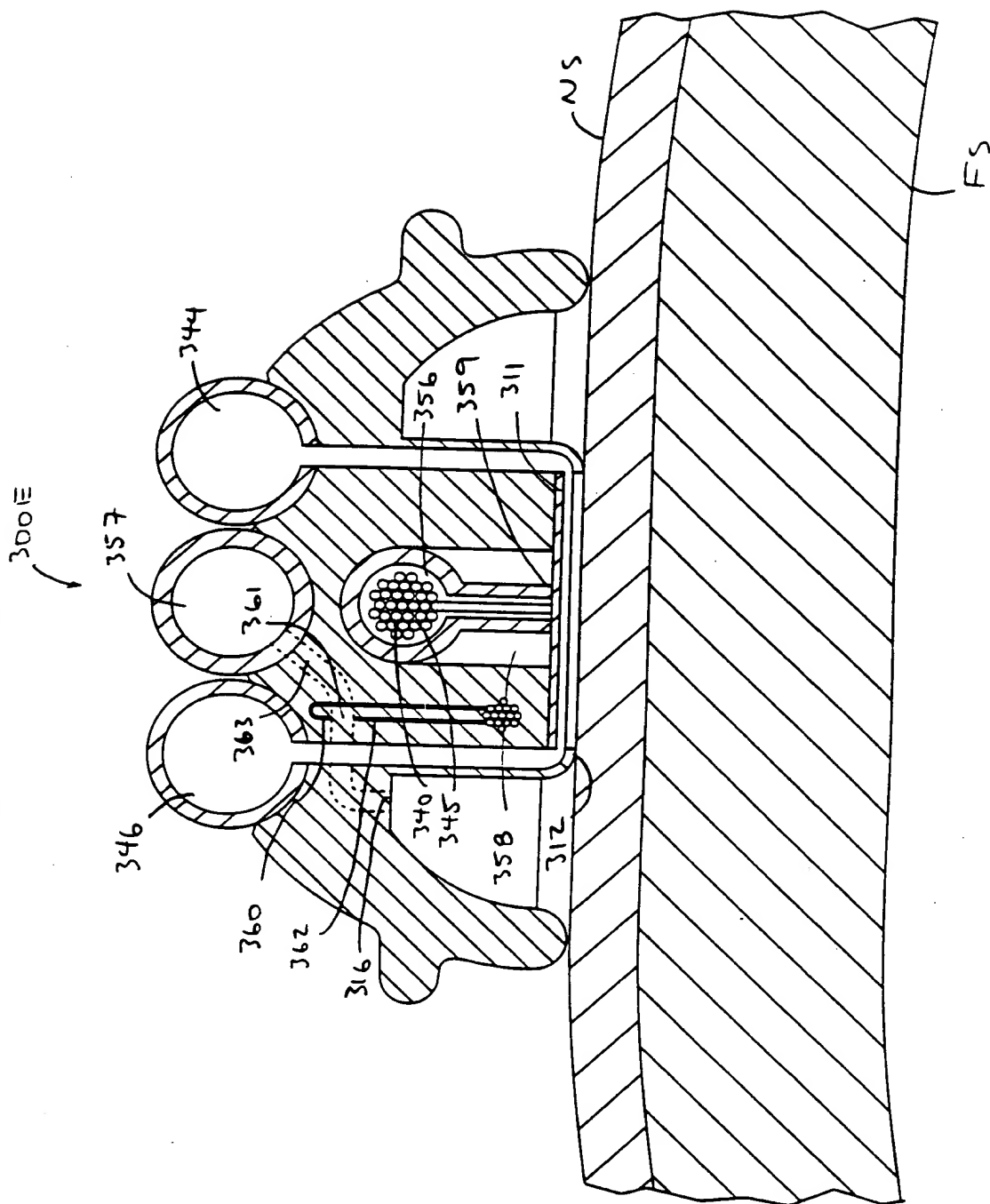


FIG. 5B







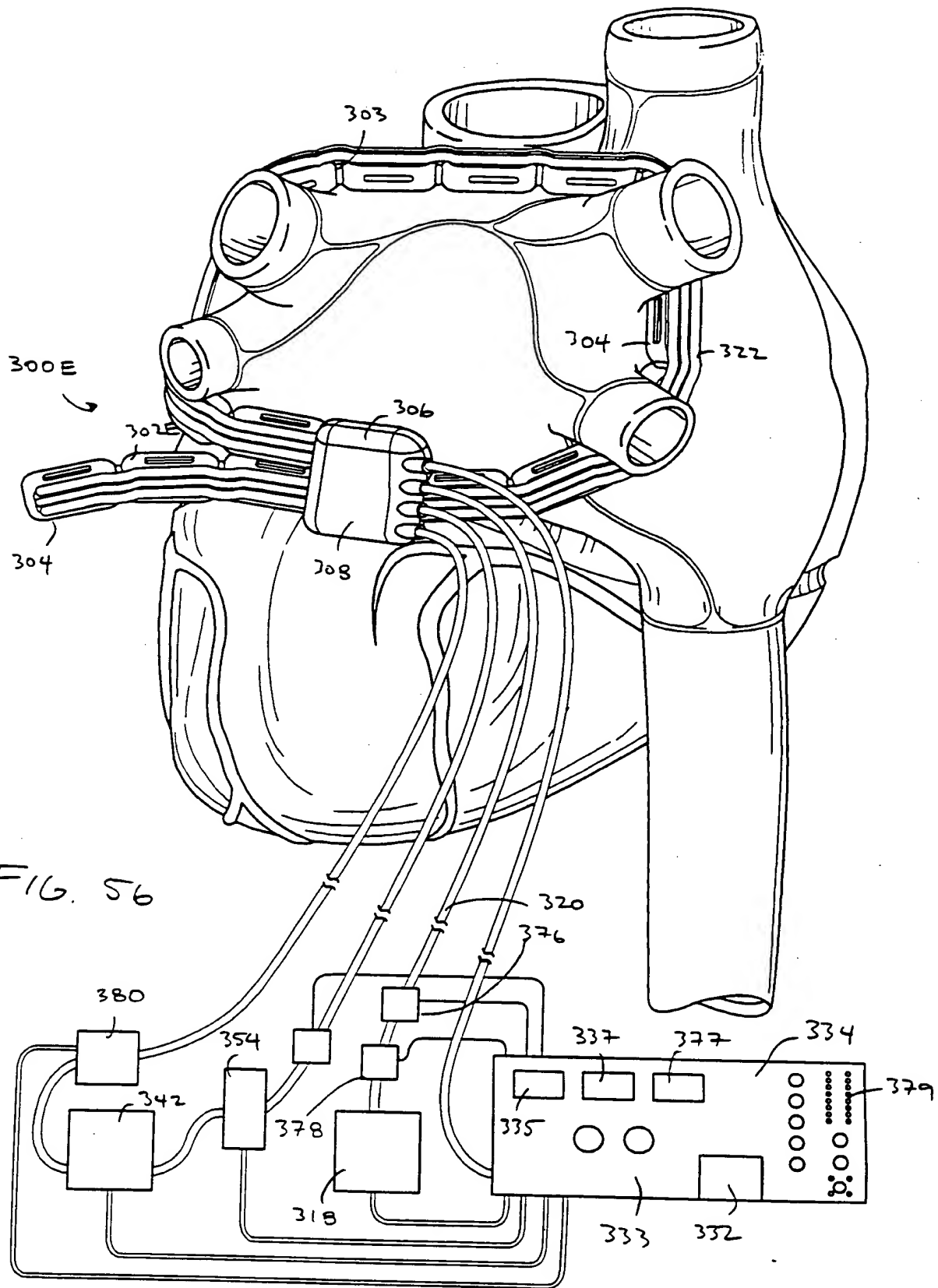
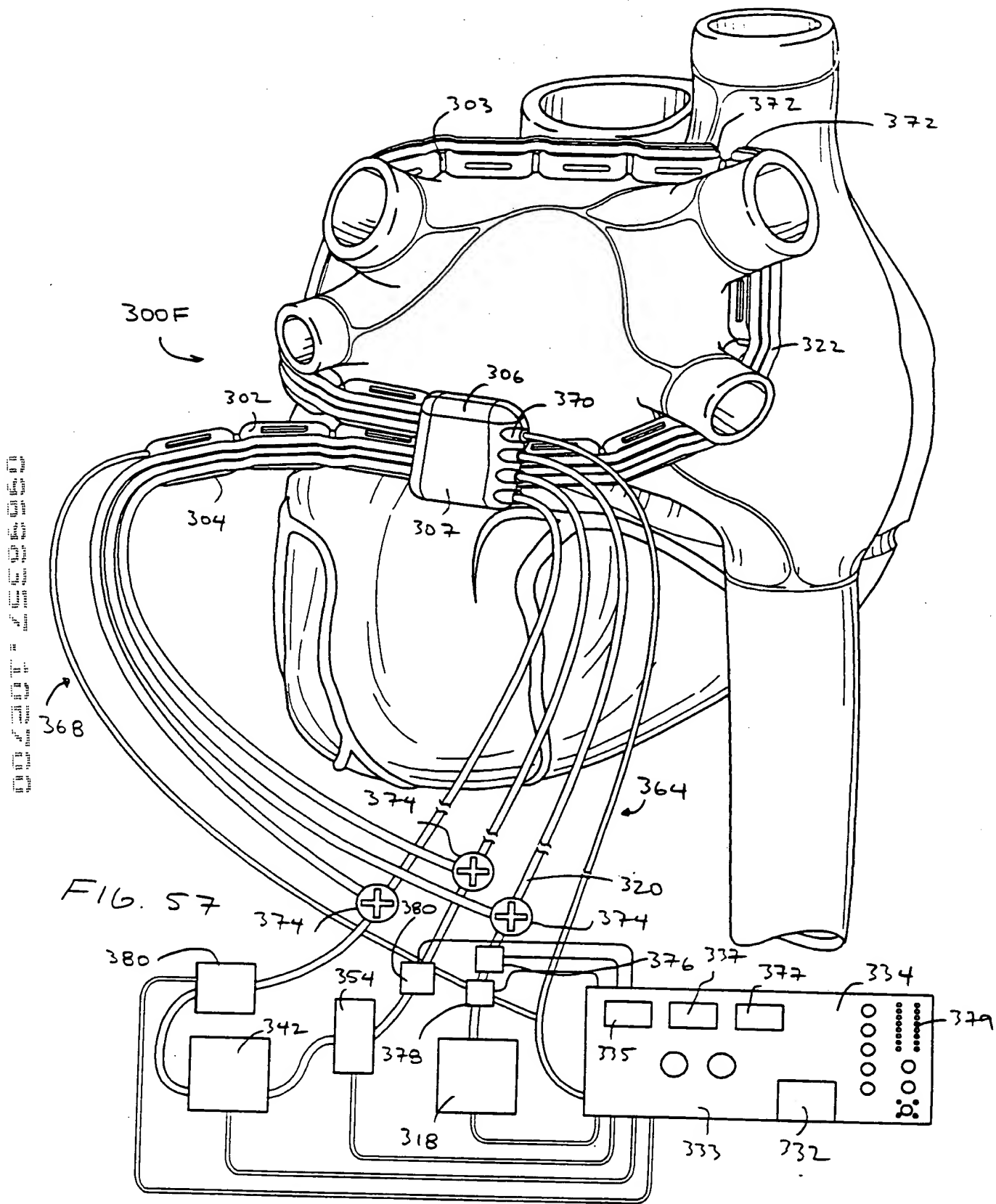
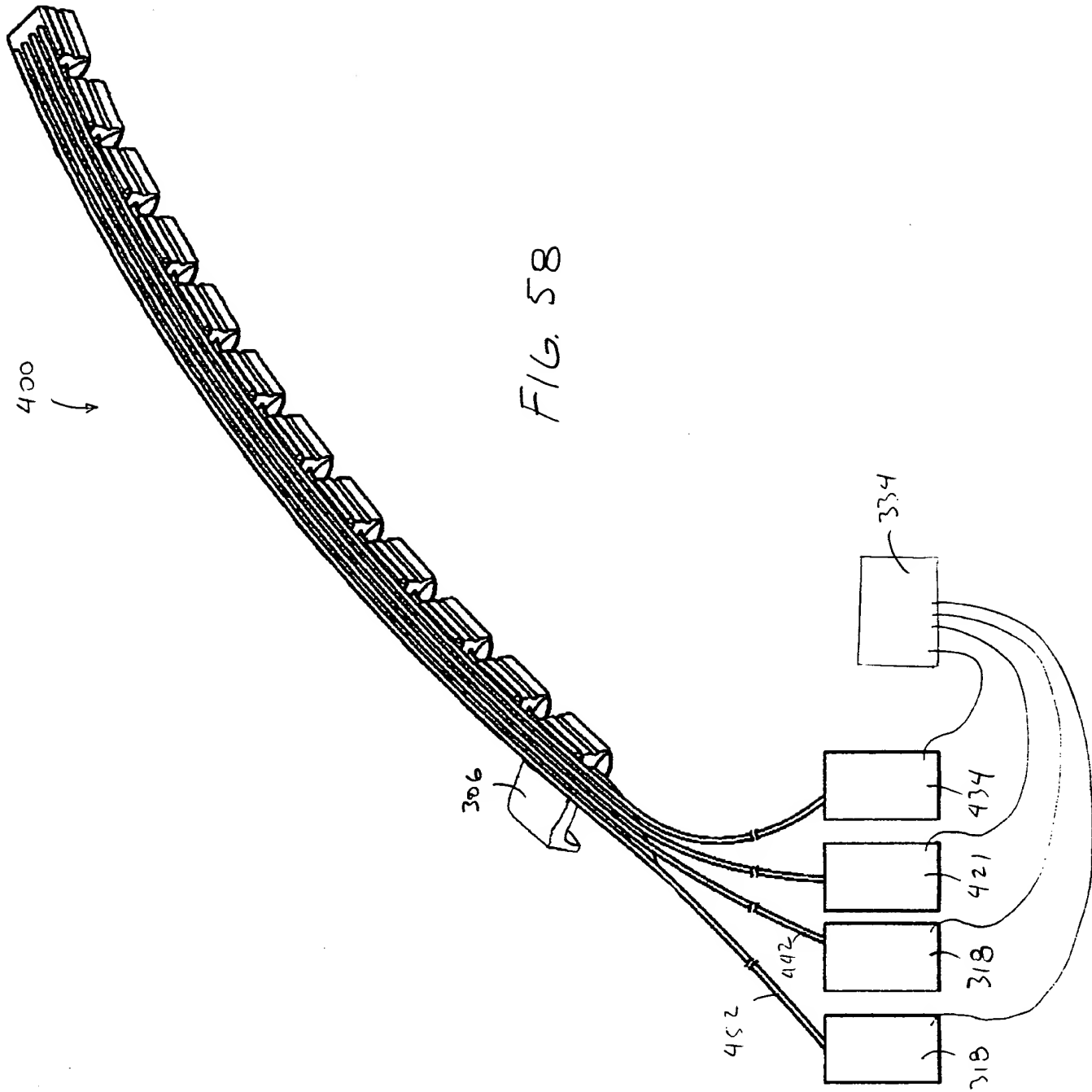
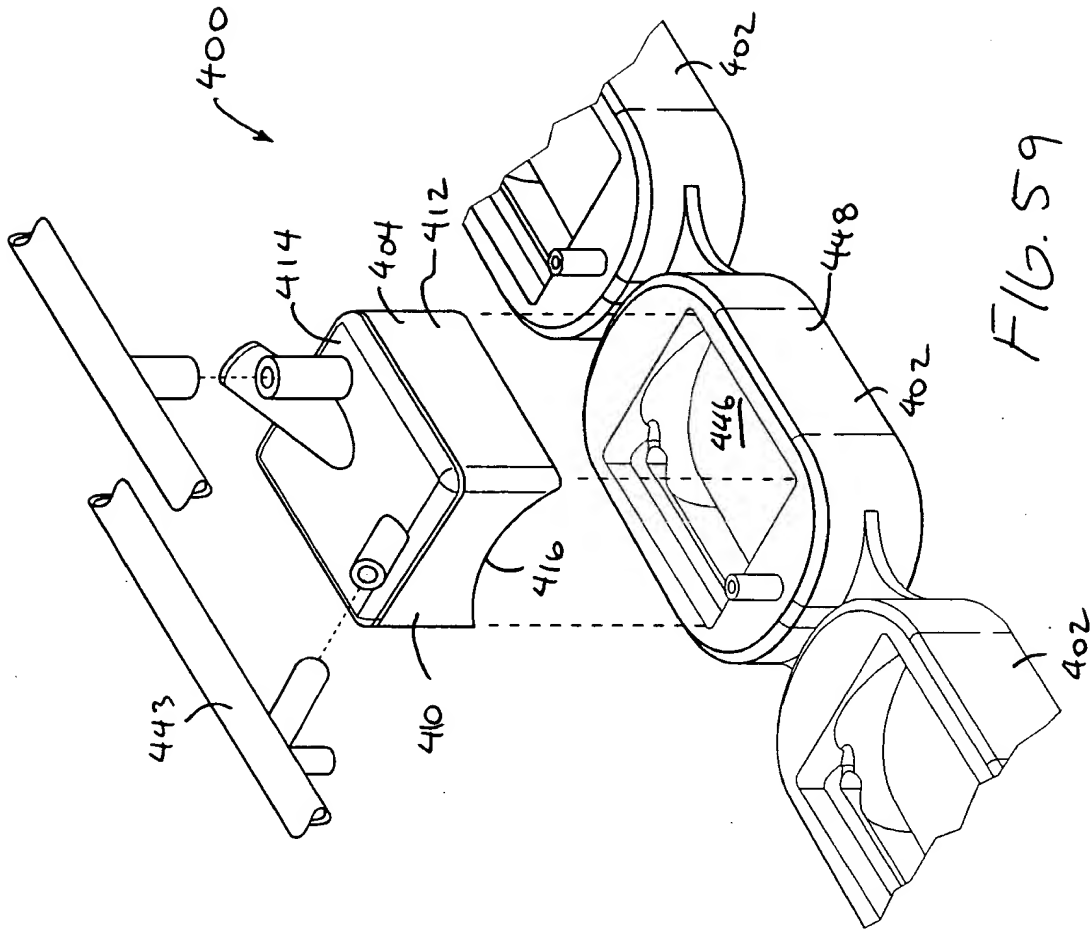


FIG. 56







F16.59



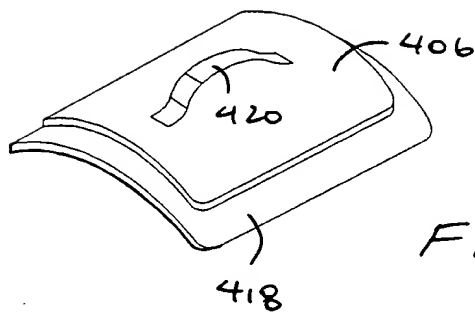


FIG. 61

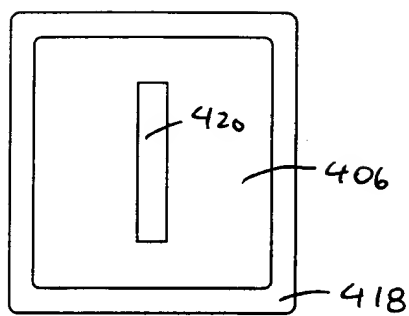


FIG. 63

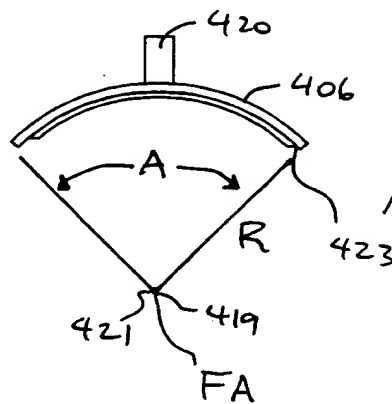


FIG. 62





FIG. 65 is a cross-sectional view of a device in accordance with the present invention, showing a substrate 402, a layer 404, a layer 418, a layer 420, a layer 422, a layer 426, a layer 438, a layer 442, a layer 448, a layer 452, a layer 454, a layer 459, and a layer 460.

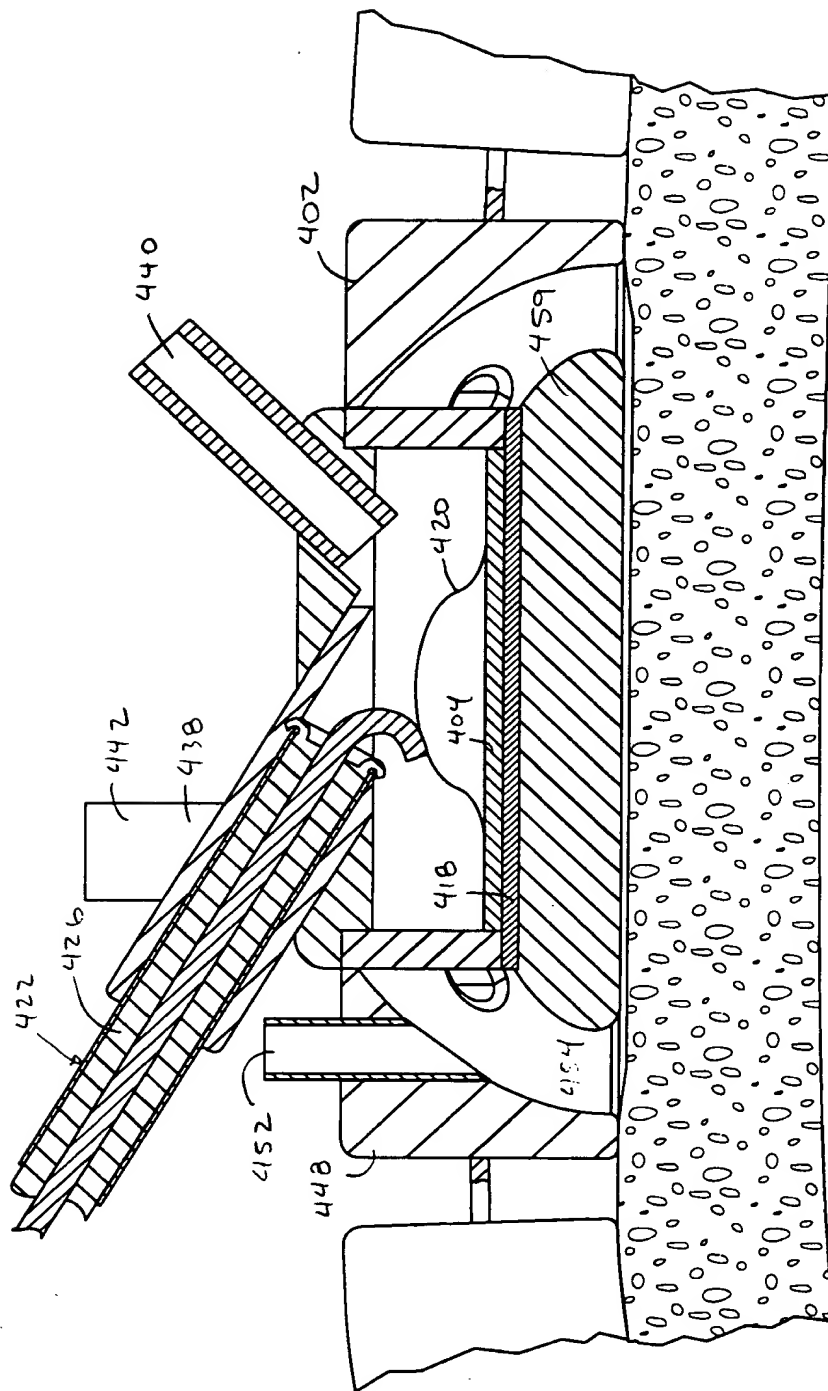


FIG. 65

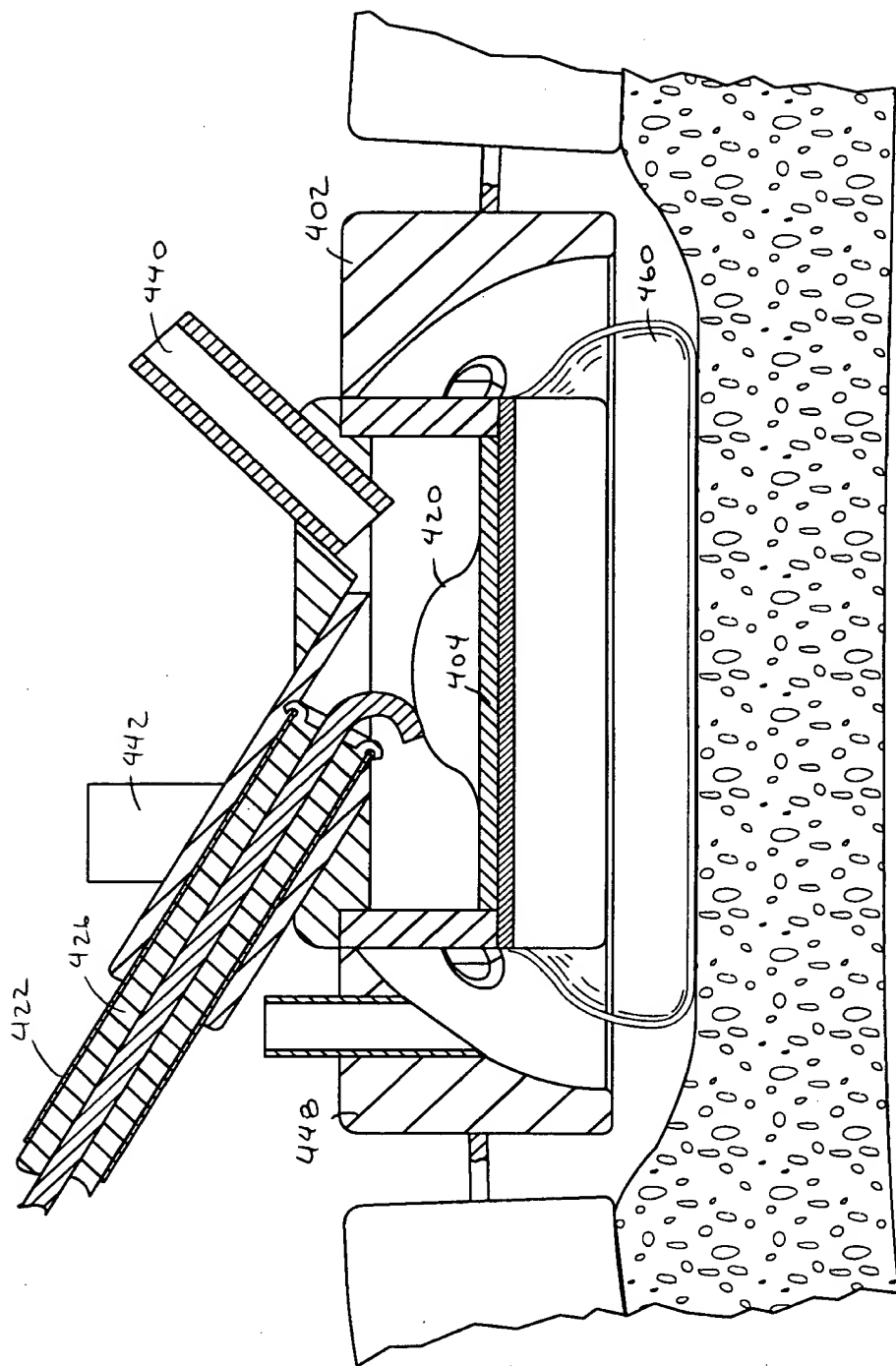


FIG 66

FIG. 67 is a cross-sectional view of the device of FIG. 66, showing the device in a closed position. The device includes a housing 400, a door 402, and a latch 404. The door 402 is shown in a closed position, and the latch 404 is shown in a locked position. The device is shown in a cross-sectional view, and the housing 400 is shown with a hatched pattern. The door 402 is shown with a hatched pattern, and the latch 404 is shown with a hatched pattern. The device is shown in a closed position, and the latch 404 is shown in a locked position.

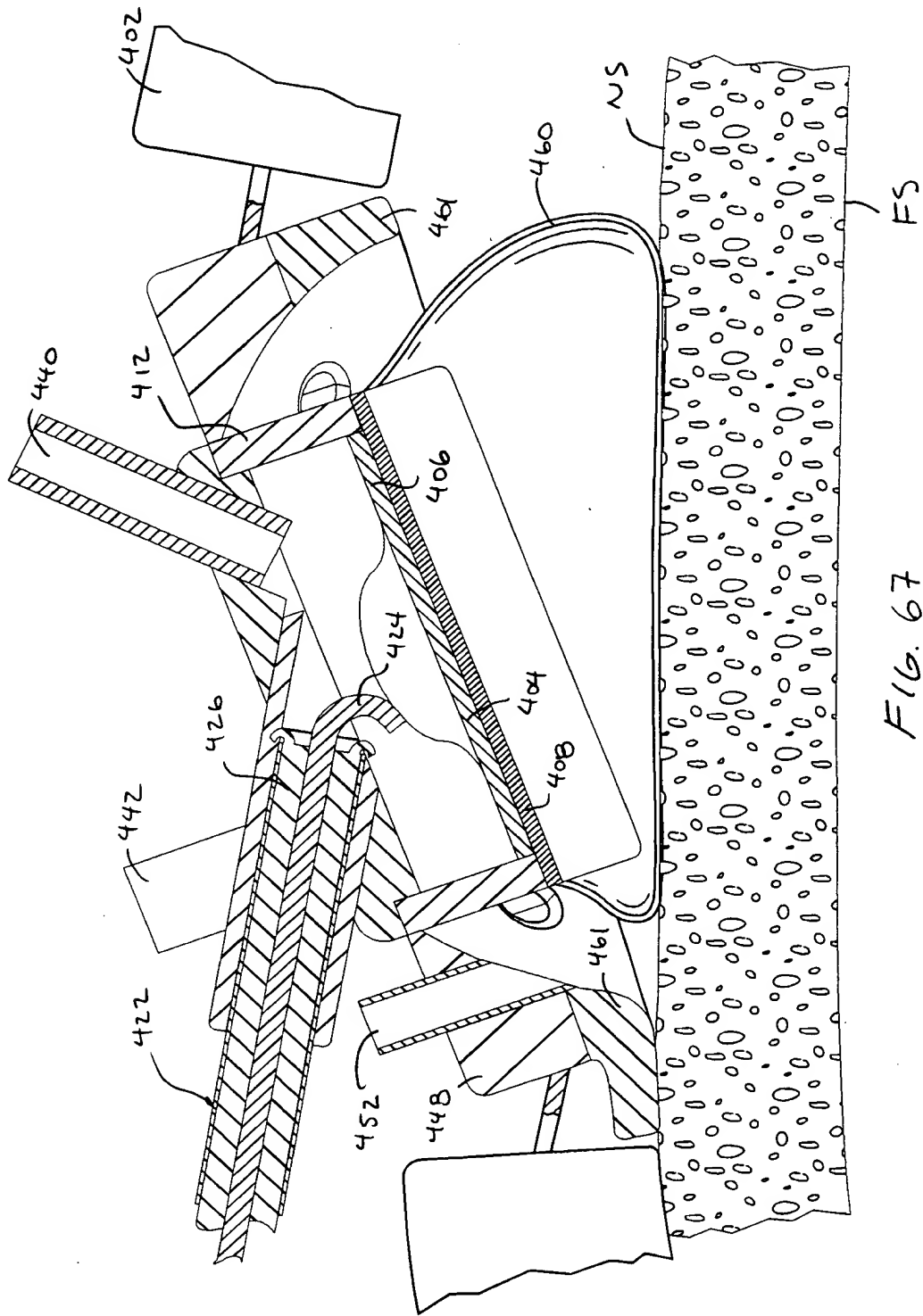


FIG. 67

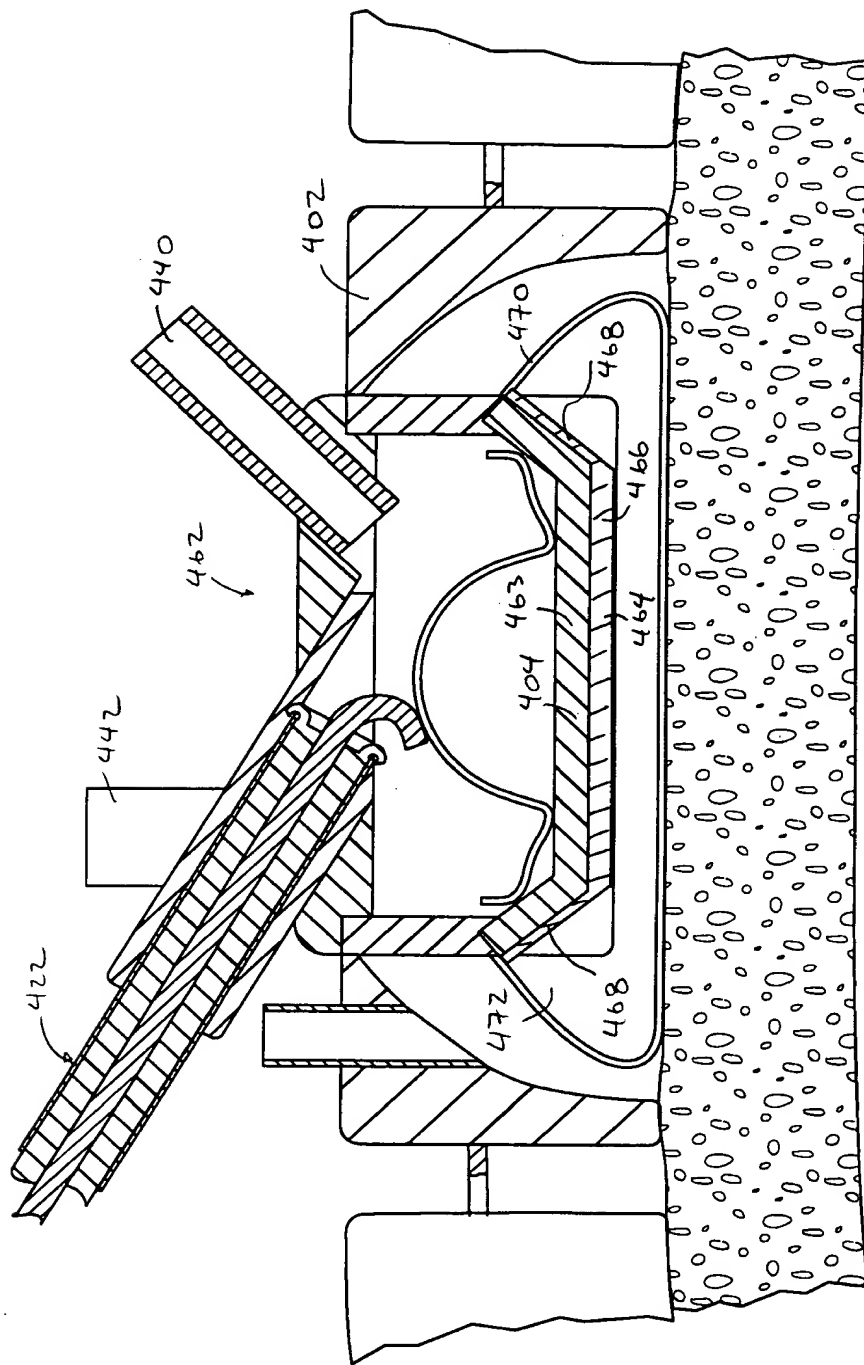


FIG. 68

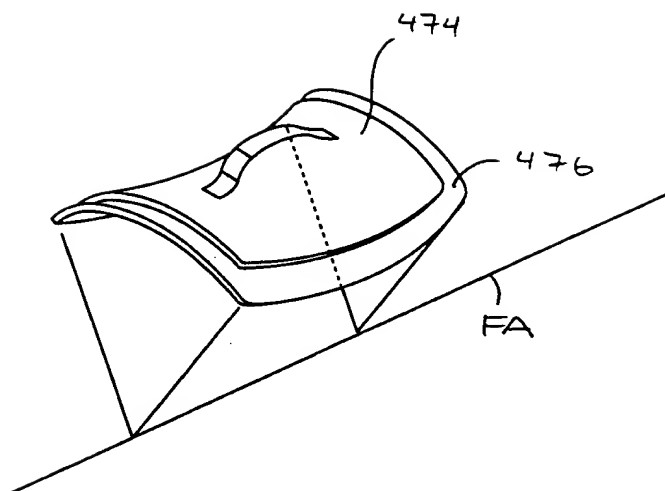


FIG. 69

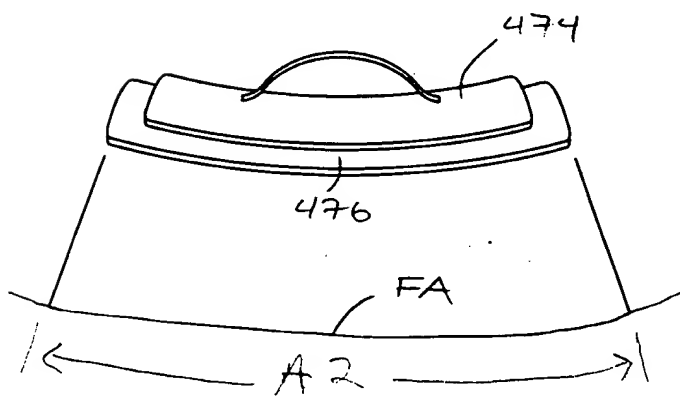


FIG. 70

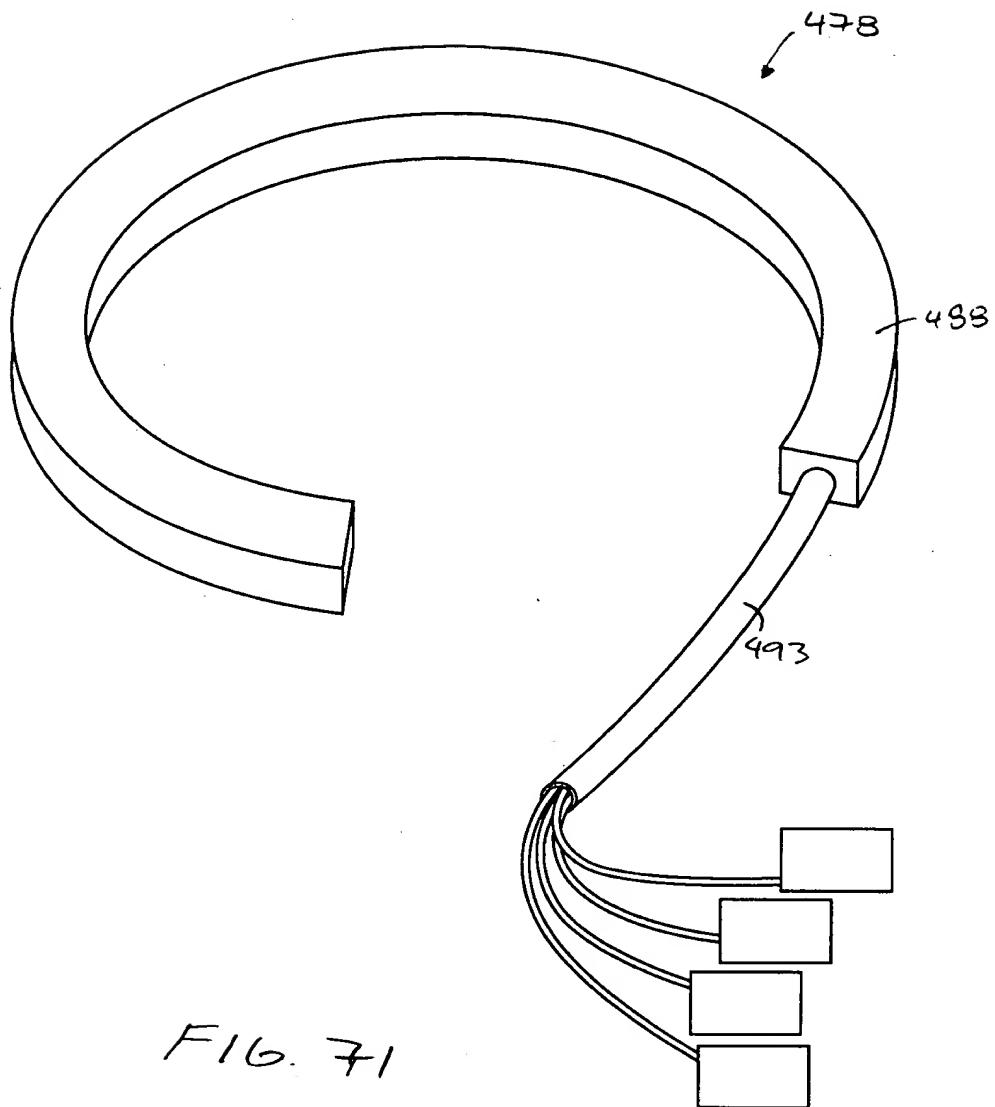


FIG. 71

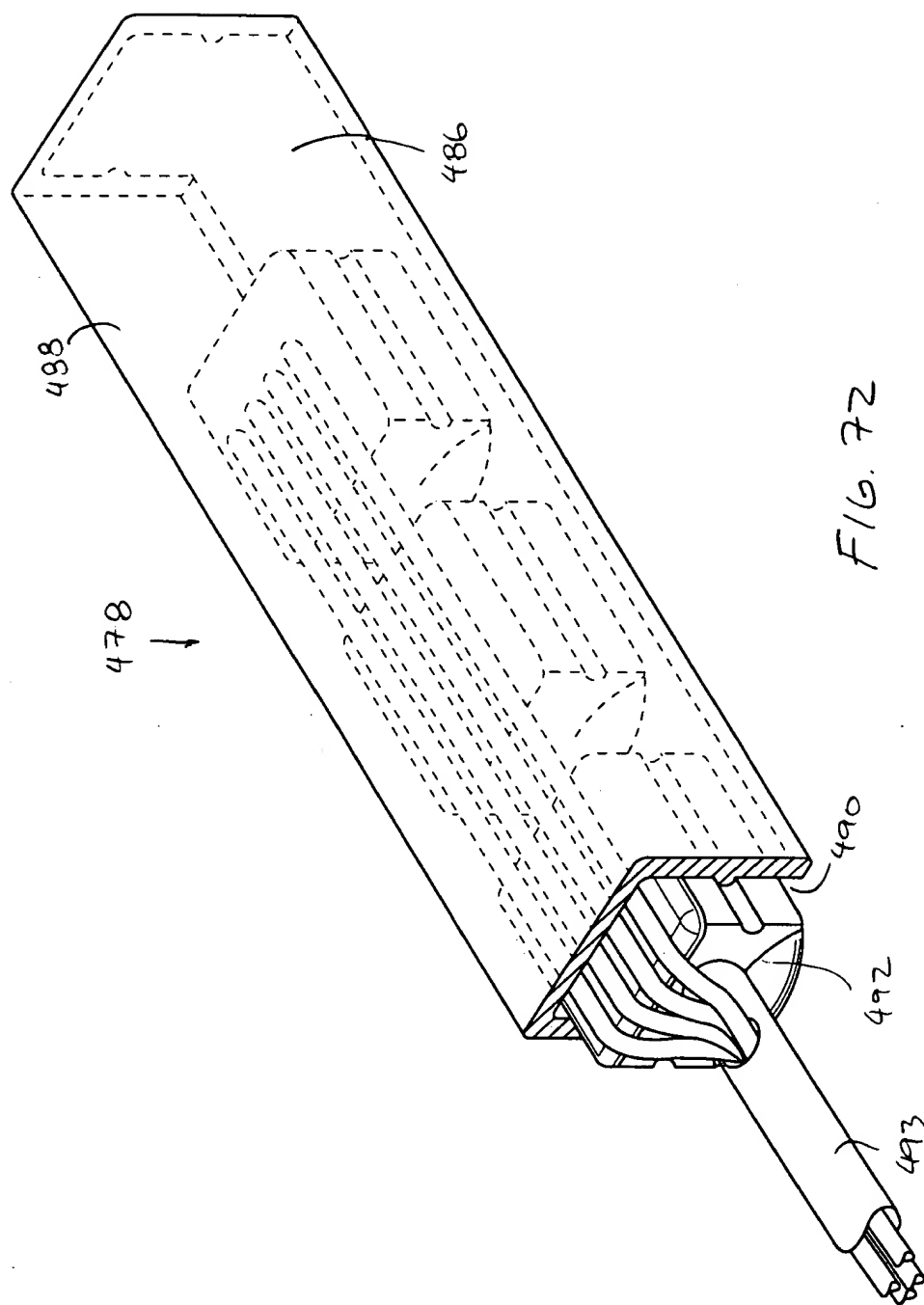




FIG. 73

